



LACO ASSOCIATES

ENGINEERS • GEOLOGISTS • ENVIRONMENTAL CONSULTANTS

LEONARD M. OSBORNE • CE 38573
DAVID R. GERMAN • CE 57282
DAVID N. LINDBERG • PG 5581/CEG 1895
FRANK R. BICKNER • PG 7428
RONALD C. CHANEY, Ph.D • CE 29027/GE 00934

July 13, 2006

4563.04

Humboldt County Department of Health and Human Services
Division of Environmental Health
100 H Street, Suite 100
Eureka, California 95501

Attention: Mr. Mark Verhey, C.E.G.

Subject: Groundwater Monitoring Report, Second Quarter 2006
Former Fortuna Shell, 809 Main Street, Fortuna, California
LOP No. 12672, USTCF Claim No. 13624

Dear Mr. Verhey:

LACO ASSOCIATES (LACO) presents the results of groundwater monitoring for the second quarter of 2006 for the former Fortuna Shell, presently operating as Gas-4-Less. The site is located in Fortuna, California; please refer to Figures 1 and 2. This groundwater monitoring report has been prepared on behalf of W & S Enviro.

The following elements are included within this report:

- Summary of work performed
- Site chronology
- Bulleted summary of hydraulic gradients
- Figures representing shallow and perched zone hydraulic gradients
- Charts illustrating analyte concentration rebound post 2004 pilot test
- Statement of future work

Please call (707) 443-5054 if you have any questions or concerns.

Sincerely,
LACO ASSOCIATES

Amy M. Thomson
Staff Geologist

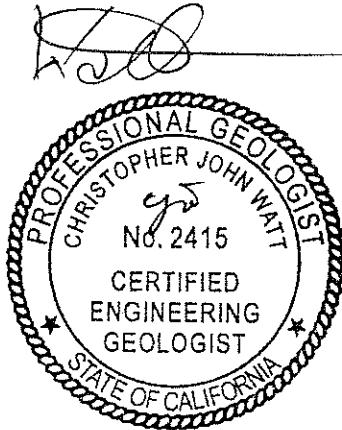
AMT:jg

Attachments

P:\4000\4563 WSE Fortuna Shell\Submittals\GMRs\2006\2Q06\4563_2Q06_GMR.doc

Christopher J. Watt

C.E.G 2415, Exp. 03/31/08



GROUNDWATER MONITORING REPORT, SECOND QUARTER 2006

Former Fortuna Shell, 809 Main Street, Fortuna, California

LOP No. 12672, USTCF Claim No. 13624, LACO Project No. 4563.03

INTRODUCTION

This report presents the results of quarterly groundwater monitoring conducted at the former Fortuna Shell (hereafter referred to as the ‘site’). Groundwater field activities were conducted on May 2, 2006, in accordance with generally accepted practices at this or similar locations. Monitoring well sampling protocol is included in LACO’s *Standard Operating Procedures No. 2*, on file at your office. Details of the May 2nd groundwater monitoring sampling event are presented below in Table A. Groundwater monitoring field sampling forms for May 2nd are included as Attachment 1, a key to abbreviations used in tables and charts is included as Attachment 2, and a copy of the current laboratory results and case narratives from North Coast Laboratories are included as Attachment 3.

RESPONSE TO CORRESPONDENCE

In correspondence dated January 25, 2006, the Humboldt County Division of Environmental Health (HCDEH) requested soil data from monitoring well and boring installations. In the *First Quarter 2006 Groundwater Monitoring Report*, dated March 10, 2006, LACO submitted the requested soil data, however, this table was incomplete. Please find included a complete soil data table for monitoring well and boring investigations for this site (Attachment 4).

The soil data presented with this report indicates that sufficient investigation has been performed in the area surrounding monitoring wells MW3, MW5, and MW8. Boring B2-00 was completed to 24 feet below ground surface (bgs), and the soil sample collected at 24 feet bgs was reported as non-detect. This suggests the vertical extent of methyl tertiary butyl ether (MTBE) has been delineated in this area.

Investigations performed by LACO indicate that MTBE has not been detected below 20 feet bgs throughout this site. Boring B1-00, the deepest boring installed on-site, was completed to 39 feet

bgs, with soil samples collected at 8, 10, 17, 24, 27, 29, 34, and 39 feet bgs, with no MTBE detection below 17 feet bgs. This suggests that the MTBE detections in borings B12 and B14 (160 parts per billion [ppb] and 100 ppb), associated with LOP No. 12156, are not associated with the subject site.

Table A: Field Sampling Details for May 2, 2006

| Monitoring Well ID | Screened Interval (feet) | DTW (feet) | Purge Method | Water Quality Parameters | Organic Analyticals | Lead Scavengers | Sampling Schedule | | | |
|--------------------|--------------------------|------------|--------------|--------------------------|--|---|-------------------|--|--|--|
| MW1 | 6-10 | 4.45 | DHP | pH, T, ECw, ORP, DO | TPHg, TPHd, TPHmo, BTEX, MTBE, DIPE, ETBE, TAME, TBA | 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,2-Dichloroethane 1,2-Dibromoethane (EDB) Chlorobenzene | Quarterly | | | |
| MW2 | 5-10 | 4.22 | | --- | | | | | | |
| MW3 | 5-12 | 4.53 | | --- | | | | | | |
| MW4 | 5-10 | 4.07 | | --- | | | | | | |
| MW5 | 5-10 | 4.14 | | CAM Pump | | | | | | |
| MW6 | 12-20 | 4.65 | DHP | pH, T, ECw, ORP, DO | | | | | | |
| MW7 | 10-15 | 4.17 | | | | | | | | |
| MW8 | 15-20 | 10.48 | | | | | | | | |
| MW9 | 12-15 | 7.73 | | | | | | | | |
| MW10 | 12.5-15.5 | 6.27 | | | | | | | | |
| MW11 | 12.5-15.5 | 9.24 | | | | | | | | |
| MW12 | 12.5-15 | 9.01 | | | | | | | | |
| MW13 | 12.5-15 | --- | --- | --- | --- | --- | | | | |
| MW14 | 5-10 | 4.71 | DHP | pH, T, ECw, ORP, DO | TPHg, TPHd, TPHmo, BTEX, MTBE, DIPE, ETBE, TAME, TBA | 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,2-Dichloroethane 1,2-Dibromoethane (EDB) Chlorobenzene | | | | |
| MW15 | 5-10 | 4.56 | | | | | | | | |
| MW16 | 5-10 | 4.06 | | | | | | | | |
| MW17S | 22.5-24.5 | 22.78 | ¾" Bailer | --- | TPHg, BTEX, MTBE, DIPE, ETBE, TAME, TBA | 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,2-Dichloroethane 1,2-Dibromoethane (EDB) Chlorobenzene | | | | |
| MW17D | 26-28 | 25.53 | | | | | | | | |

SITE CHRONOLOGY

- 1998:** Eleven temporary borings (B1 through B11) were installed to investigate the underground storage tank (UST) closure.
- 1999:** Four USTs were removed from the site. One 2,000-gallon UST, one 8,000-gallon UST, two 10,000-gallon USTs, and approximately 140 cubic yards of soil was excavated and removed from the site.
- 2000:** A domestic well survey was conducted, monitoring wells MW1 through MW8 were installed, and temporary borings B1-00 through B20-00 were installed.

- 2001:** LACO personnel performed bail and slug tests on monitoring wells MW1 and MW2 to determine hydraulic conductivities in the perched zone. Monitoring wells MW9 through MW13 were installed offsite, and temporary borings HP1 through HP6 were installed.
- 2002:** Four temporary borings were installed to further characterize soils at the site. A *Corrective Action Plan* was submitted to the HCDEH.
- 2003:** A *Remedial Action Plan* (RAP) was submitted to the HCDEH detailing the proposed scope of work to install, operate, and conduct an oxygen sparging pilot test to assess the reduction of the on-site secondary source petroleum hydrocarbon mass.
- 2004:** Monitoring wells MW14, MW15, and MW16 were installed to serve as monitoring points for the forthcoming remediation program. Temporary borings B12 and B13 were installed, and the presence of dissolved-phase MTBE in one boring led to the installation of two additional monitoring wells, MW17S and MW17D (S = shallow, D = deep).
Two sparge wells were installed at the site for an oxygen sparging pilot test. The oxygen sparging pilot test was in operation from April 4 to November 30, 2004.
- 2005:** A RAP Addendum was submitted to the HCDEH, and approved in letter correspondence dated July 26, 2005.
- 2006:** A cost proposal for the Pay-for-Performance program was submitted to the Underground Storage Tank Cleanup Fund (USTCF).

HYDROGEOLOGY AND HYDRAULIC GRADIENT

Stratigraphic data from boring and monitoring well installations to date confirm that several primarily sand and gravel water-bearing units exist, and are primarily separated by layers of dense clayey silt to depths of approximately 40 feet bgs. Previous investigations found that the upper contact of the dense, well-graded gravel of the Rohnerville formation occurs from 38 to 45 feet bgs. The Rohnerville formation functions as a confined artesian water-bearing unit in the vicinity of the subject property.

Equipotential maps for the perched and shallow zones were generated using the hydraulic head elevations calculated from depth to water measurements made on May 2, 2006, and are presented as Figures 3 and 4, respectively. The hydraulic gradient in the perched zone was calculated using the three-point method in the area defined by monitoring wells MW1, MW3, and MW14. The hydraulic gradient in the shallow zone was calculated using the three-point method in the area defined by monitoring wells MW7, MW11, and MW12. These monitoring wells were selected because they are located along the site perimeter and are considered representative of the hydraulic gradients of the site.

Hydraulic gradient (May 2, 2006), perched zone (Figure 3)

- N58°W direction at 0.02 feet per foot

Hydraulic gradient (May 2, 2006), shallow zone (Figure 4)

- N83°W direction at 0.06 feet per foot

Calculated hydraulic gradients for the shallow and perched zones are consistent with previous groundwater monitoring events (Table 1). Current and historical hydraulic head elevations are presented in Table 2.

LABORATORY ANALYTICAL RESULTS AND DISCUSSION

Groundwater analytical data collected on May 2nd from on- and off-site monitoring wells is included below in Table B. Historical and current groundwater analytical results are tabulated and are presented in Table 2, and a copy of the current laboratory results and case narratives from North Coast Laboratories is included as Attachment 3.

Table B: Laboratory Analytical Results for May 2, 2006

| Monitoring WELL ID | TPHg ($\mu\text{g/L}$) | TPHd ($\mu\text{g/L}$) | TPHmo ($\mu\text{g/L}$) | Benzene ($\mu\text{g/L}$) | Toluene ($\mu\text{g/L}$) | Ethylbenzene ($\mu\text{g/L}$) | Total Xylenes ($\mu\text{g/L}$) | MTBE ($\mu\text{g/L}$) | TBA ($\mu\text{g/L}$) | TAME ($\mu\text{g/L}$) | ETBE ($\mu\text{g/L}$) | DIPE ($\mu\text{g/L}$) | Other Analytes ($\mu\text{g/L}$) |
|--------------------|--------------------------|--------------------------|---------------------------|-----------------------------|-----------------------------|----------------------------------|-----------------------------------|--------------------------|-------------------------|--------------------------|--------------------------|--------------------------|---|
| MW1 | 4,100 | 240 | ND<170 | 4.4 | 7.0 | 44 | 17.8 | ND<1.0 | ND<10 | ND<1.0 | 1.0 | ND<1.0 | All ND<1.0 |
| MW2 | 5,800 | 630 | | 18 | 6.3 | 40 | 26.6 | ND<7.0 | | | | | |
| MW3 | 1,800 | 210 | | 2.8 | 0.58 | ND<0.50 | 1.66 | 6.7 | | | | | |
| MW4 | 1,600 | 140 | | 8.5 | 0.90 | 5.7 | 1.5 | 3.5 | ND<70 | ND<1.0 | ND<1.0 | ND<1.0 | All ND<1.0-2.0 |
| MW5 | 9,300 | 780 | | 280 | 14 | 140 | 80.6 | ND<60 | ND<50 | 2.6 | ND<2.0 | All ND<1.0 | All ND<1.0 |
| MW6 | ND<50 | ND<50 | | | | | | 10 | ND<10 | ND<1.0 | | | |
| MW7 | 360 | 51 | | | | | | 310 | ND<100 | 16 | | | |
| MW8 | 1,700 | ND<50 | | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | 2,100 | 440 | 81 | 8.3 | ND<4.0 | 1,2 Dichloroethane= 1.7 others = ND<1.0 |
| MW9 | ND<50 | --- | --- | | | | | 4.6 | ND<10 | ND<1.0 | ND<1.0 | ND<1.0 | All ND<1.0 |
| MW10 | | | | | | | | 5.0 | | | | | |
| MW11 | | | | | | | | 3.2 | | | | | |
| MW12 | | | | | | | | 620 | | 25 | ND<4.0 | ND<2.0 | |
| MW13 | Well Inaccessible | | | | | | | | | | | | |
| MW14 | 210 | 100 | ND<170 | 0.73 | ND<0.50 | ND<0.50 | ND<0.50 | 2.1 | ND<10 | ND<1.0 | ND<1.0 | ND<1.0 | All ND<1.0 |
| MW15 | 1,600 | 79 | 200 | 79 | 2.2 | 11 | 3.8 | 50 | ND<30 | 2.8 | ND<1.0 | | |
| MW16 | 6,600 | 300 | ND<170 | 790 | 21 | 22 | 51.3 | 300 | ND<100 | 8.5 | 3.8 | | |
| MW17S | 410 | --- | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | 340 | 77 | 2.8 | ND<4.0 | ND<3.0 | |
| MW17D | 80 | | | | | | | 7.0 | ND<10 | ND<1.0 | ND<1.0 | ND<1.0 | |

Laboratory results reported for samples collected during the May 2, 2006, quarterly sampling event are consistent within the range of results historically reported for active wells. Total petroleum hydrocarbons as gasoline (TPHg) concentrations in down-gradient monitoring wells MW1, MW4, and MW7 have rebounded since the oxygen sparging pilot test was performed (April through November 2004) as illustrated in Charts 1 through 3. In monitoring well MW1, the concentration of TPHg initially decreased two orders of magnitude (from 4,500 $\mu\text{g/L}$ to 80 $\mu\text{g/L}$) then rebounded two orders of magnitude (4,100 $\mu\text{g/L}$). In monitoring well MW4, the concentration of TPHg decreased two orders of magnitude (from 10,000 $\mu\text{g/L}$ to 170 $\mu\text{g/L}$) then rebounded one order of magnitude (1,600 $\mu\text{g/L}$). The concentration of TPHg in monitoring well MW7 initially increased one order of magnitude (1,300 $\mu\text{g/L}$) then decreased one order of magnitude to 360 $\mu\text{g/L}$.

Following the pilot test, it is interpreted that a portion of the untreated petroleum hydrocarbon plume up-gradient of the remediation system migrated down-gradient through the key monitoring wells, an increase (rebound) in TPHg concentrations was detected. The TPHg concentration for monitoring well MW6 did not rebound following the pilot test (Chart 4).

FUTURE WORK

- The next quarterly monitoring event is scheduled for August 2006.
- A cost proposal for RAP implementation was submitted to the USTCF on June 14, 2006.
- Monitoring wells MW9, MW10, MW11, MW17S, and MW17D will be changed to a bi-annual sampling schedule, with regulatory concurrence dated June 15, 2006.

LIMITATIONS

LACO has exercised a standard of care equal to that generated for this industry to ensure that the information contained in this report is current and accurate. LACO disclaims any and all liability for any errors, omissions, or inaccuracies in the information and data presented in this report and/or any consequences arising there from, whether attributable to inadvertence or otherwise. LACO makes no representations or warranties of any kind including, but not limited to, any implied warranties with respect to the accuracy or interpretations of the data furnished. LACO assumes no responsibility of any third party reliance on the data presented and that data generated for this report represents information gathered at that time and at the indicated locations. It should not be utilized by any third party to represent data for any other time or location. This report is valid solely for the purpose, site, and project described within this document. Any alteration, unauthorized distribution, or deviation from this description will invalidate this report.

LIST OF FIGURES, TABLES, CHARTS, AND ATTACHMENTS

Figure 1: Location Map

Figure 2: Site Map

Figure 3: Hydrologic Gradient, Perched Wells (5/02/06)

Figure 4: Hydrologic Gradient, Shallow Wells (5/02/06)

Table 1: Historical Hydraulic Gradients

Table 2: Monitoring Well Data and Groundwater Analytical Results

- Chart 1: TPHg Concentrations vs. Cumulative Days in Monitoring Well MW1
- Chart 2: TPHg Concentrations vs. Cumulative Days in Monitoring Well MW4
- Chart 3: TPHg Concentrations vs. Cumulative Days in Monitoring Well MW7
- Chart 4: TPHg Concentrations vs. Cumulative Days in Monitoring Well MW6

Attachment 1: Field Sampling Forms

Attachment 2: Key to Abbreviations

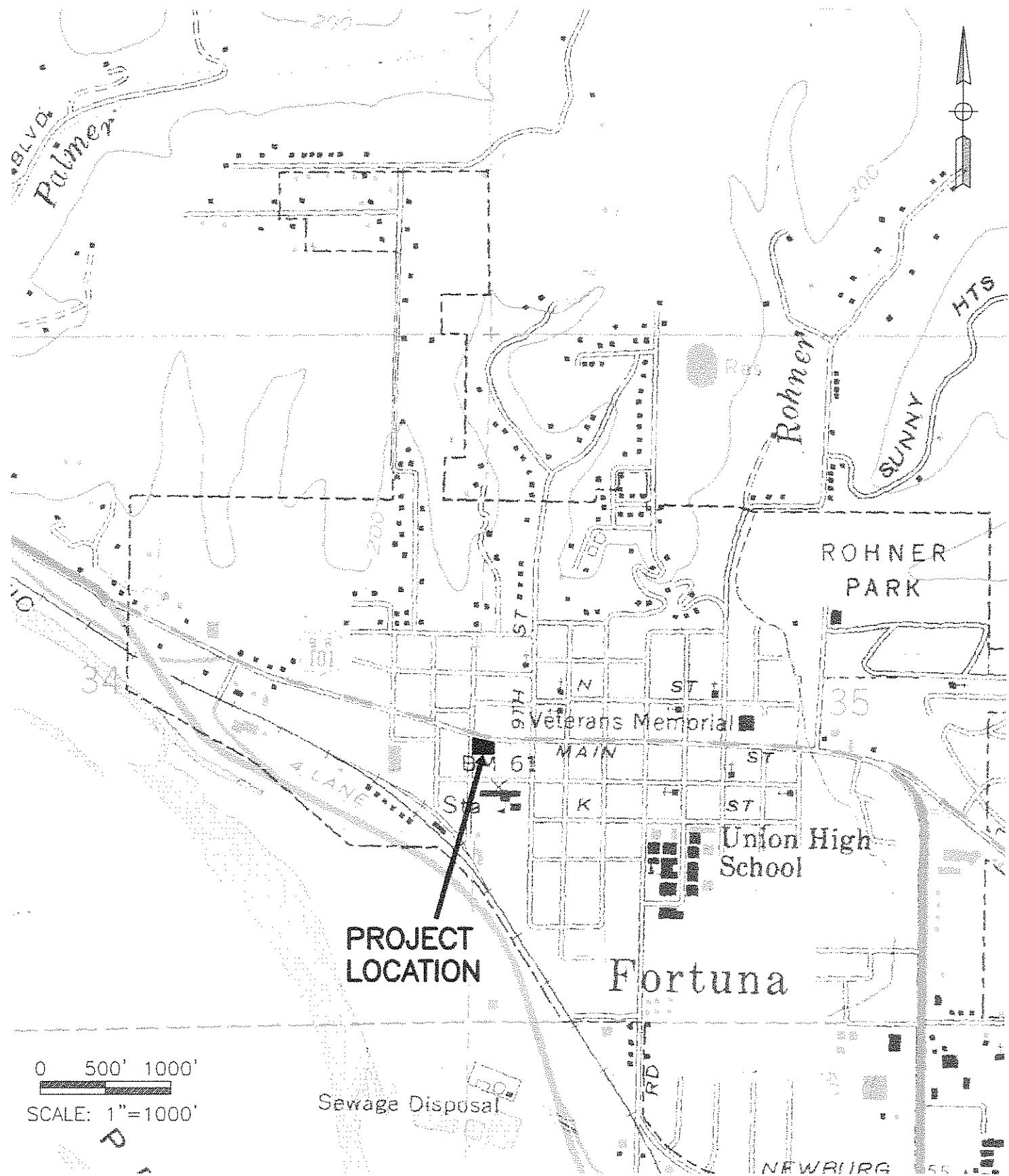
Attachment 3: Current Laboratory Analytical Results

Attachment 4: Historical Soil Analytical Results



LACO ASSOCIATES
CONSULTING ENGINEERS
21 W 4TH ST. EUREKA, CA 95501 (707)443-5054

| | | | | | |
|--------------|-------------------------------|-------|----------|---------|---------|
| PROJECT | GROUNDWATER MONITORING REPORT | | BY | RJM | FIGURE |
| CLIENT | W & S ENVIRO | | DATE | 6/28/06 | 1 |
| LOCATION | FORTUNA SHELL | | CHECK | AWT | JOB NO. |
| LOCATION MAP | | SCALE | 1"=1000' | 4563.04 | |



0 500' 1000'

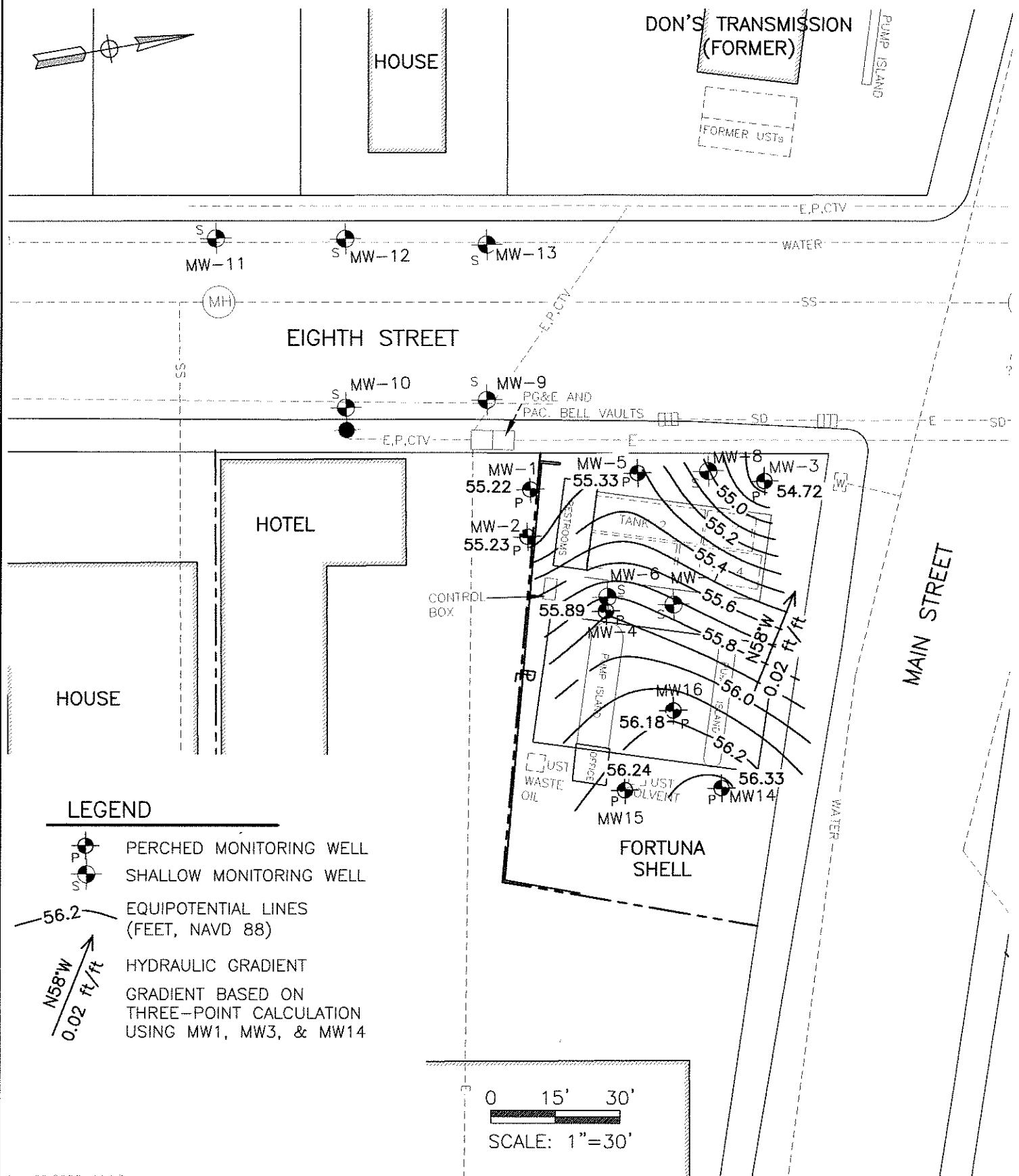
SCALE: 1"=1000'



LACO ASSOCIATES
CONSULTING ENGINEERS
21 W 4TH ST. EUREKA, CA 95501 (707)443-5055

21 W 4TH ST. EUREKA, CA 95501 (707)443-5054

| | | | | |
|----------|---|-------|---------|---------|
| PROJECT | GROUNDWATER MONITORING REPORT | BY | RJM | FIGURE |
| CLIENT | W & S ENVIRO | DATE | 6/28/06 | |
| LOCATION | FORTUNA SHELL, 809 MAIN ST. | CHECK | HMT | JOB NO. |
| | HYDRAULIC GRADIENT, PERCHED WELLS (5/02/06) | SCALE | 1"=30' | 4563.04 |





LACO ASSOCIATES
CONSULTING ENGINEERS
21 W 4TH ST. EUREKA, CA 95501 (707)443-5054

| | | | | |
|----------|---|-------|---------|---------|
| PROJECT | GROUNDWATER MONITORING REPORT | BY | RJM | FIGURE |
| CLIENT | W & S ENVIRO | DATE | 6/28/06 | 4 |
| LOCATION | FORTUNA SHELL, 809 MAIN ST. | CHECK | AMT | JOB NO. |
| | HYDRAULIC GRADIENT, SHALLOW WELLS (5/02/06) | SCALE | 1"=30' | 4563.04 |

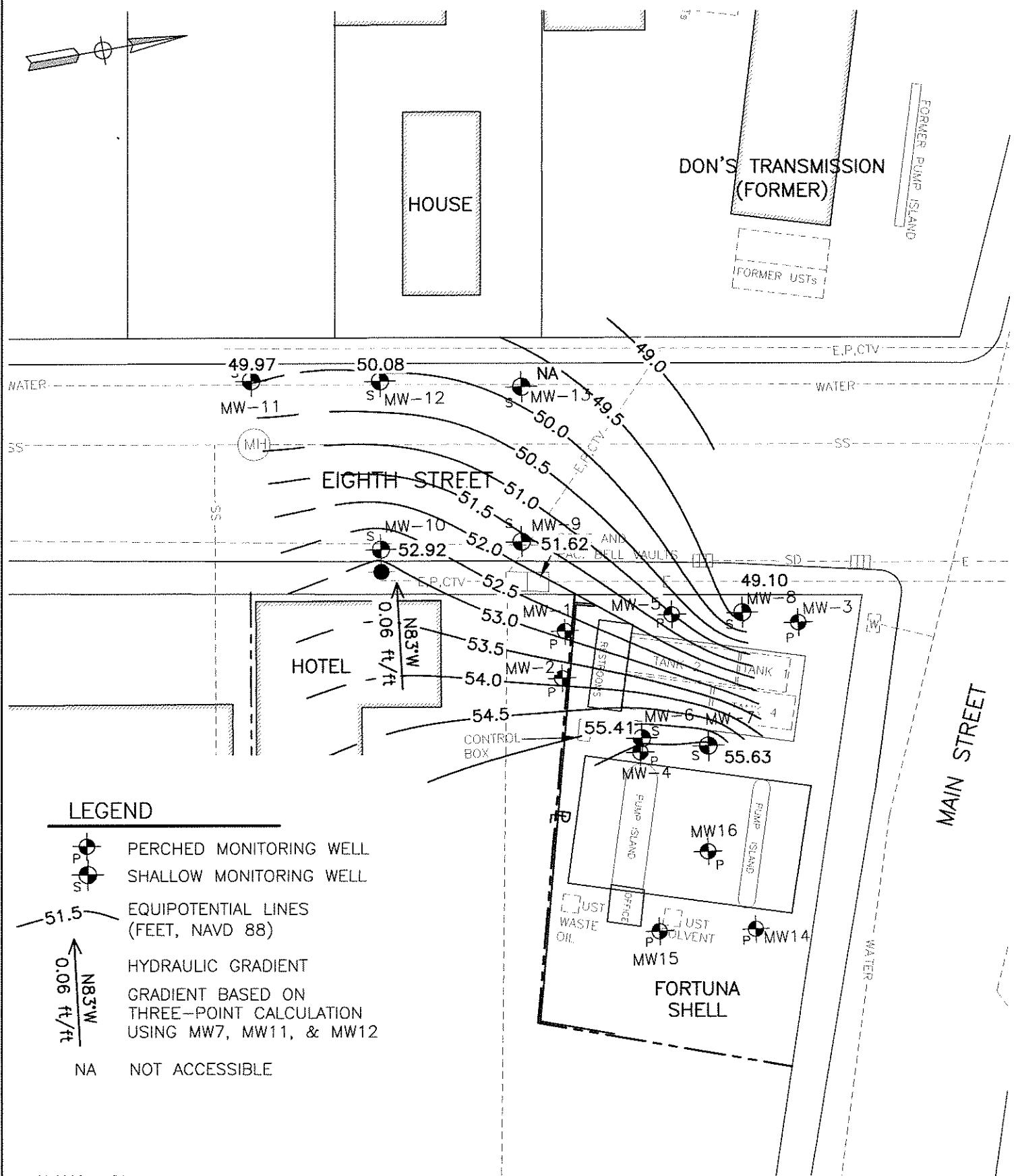


TABLE 1: HISTORICAL HYDRAULIC GRADIENTS

Fortuna Shell; 809 Main St., Fortuna, California

LOP No. 12672; LACO No. 4563.04

| Date | Shallow Aquifer | | Perched Aquifer | |
|------------|-----------------------|------------------|-----------------------|------------------|
| | Gradient Direction | Slope (ft/ft) | Gradient Direction | Slope (ft/ft) |
| 9/2000 | S2°E | <0.01 | S48°W | 0.01 |
| 10/2000 | S2°E | <0.01 | S45°E | 0.01 |
| 11/2000 | S22°E | <0.01 | S34°W | 0.02 |
| 12/12/2000 | S56°W | 0.06 | --- | --- |
| 1/8/2000 | S64°W | 0.11 | --- | --- |
| 3/12/2001 | S37°W | 0.14 | --- | --- |
| 6/2001 | S43°W | 0.14 | S31°W | 0.03 |
| 7/2001 | S43°W | 0.13 | S34°W | 0.02 |
| 8/2001 | S71°E | 0.24 | S27°W | 0.01 |
| 9/2001 | S54°W | 0.16 | S29°W | 0.01 |
| 10/2001 | S54°W | 0.16 | S37°W | 0.01 |
| 11/2001 | S54°W | 0.15 | S32°W | <0.01 |
| 2/5/2002 | N35°W | 0.07 | N19°E | 0.02 |
| 5/9/2002 | S49°W | 0.14 | S62°W | 0.02 |
| 8/15/2002 | S30°W | 0.06 | S24°W | 0.12 |
| 12/20/2002 | S56°W | 0.07 | S22°W | 0.02 |
| 2/11/2003 | S47°W | 0.07 | N8°E | 0.02 |
| 5/13/2003 | --- | --- | N19°E | 0.02 |
| 8/14/2003 | S13°W | 0.04 | S1°W | 0.02 |
| 11/4/2003 | S24°W | 0.22 | S3°E | 0.02 |
| 2/2/2004 | S37°W | 0.02 | N13°E | 0.03 |
| 5/4/2004 | S26°W | 0.03 | N62°W | 0.02 |
| 8/3/2004 | N65°W | 0.02 | N79°W | 0.02 |
| 11/10/2004 | N88°W | 0.04 | N81°W | <0.01 |
| 2/1/2005 | S86°W | 0.04 | N47°W | 0.02 |
| 5/3/2005 | S79°W | 0.05 | N35°W | 0.03 |
| 8/2/2005 | S74°W | 0.04 | N66°W | 0.02 |
| 11/1/2005 | S67°W | 0.04 | N60°W | 0.02 |
| 1/31/2006 | N75°W | 0.04 | N19°W | 0.04 |
| 5/2/2006 | N83°W | 0.06 | N58°W | 0.02 |

TABLE 2: MONITORING WELL DATA AND GROUNDWATER ANALYTICAL RESULTS
 Fortuna Shell, 805 Main St., Fortuna, California
 LOP No. 12672, LACO No. 4563.03

Groundwater Measurements

Analytical Results

| WELL Sample Date | Well Head Elevation (feet NAVD 88) | Hydraulic Head Elevation (feet NAVD 88) | Depth to Water (feet) | TPHg (µg/L) | TPHd (µg/L) | TPHn (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | TBA (µg/L) | TAME (µg/L) | ETBE (µg/L) | DPE (µg/L) | TAME (µg/L) | Other Analytes (µg/L) |
|------------------|------------------------------------|---|-----------------------|-------------|-------------|-------------|----------------|----------------|---------------------|----------------------|-------------|------------|-------------|-------------|------------|-------------|-----------------------|
| MW1 | | | | | | | | | | | | | | | | | |
| 8/4/2000 | 59.67 | Screened Interval = 6-10 feet bgs | 53.51 | 6.16 | --- | 230 | ND<170 | 42 | 5 | 27 | 20.1 | 94.1 | 500 | ND>20 | 56 | ND<1.0 | ND<1.0 |
| 8/7/2000 | 53.41 | 6.26 | 52.64 | 7.03 | --- | --- | --- | --- | --- | --- | 0 | --- | --- | --- | --- | --- | --- |
| 9/8/2000 | 52.15 | 7.52 | 52.15 | 7.52 | --- | --- | --- | --- | --- | 0 | --- | --- | --- | --- | --- | --- | --- |
| 10/12/2000 | 53.91 | 5.76 | 2,900 | 210 | ND<170 | 9.2 | 1.4 | 8.1 | 5.5 | 24.2 | 250 | 120 | 27 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 |
| 11/3/2000 | 54.60 | 5.07 | 54.60 | 5.07 | --- | --- | --- | --- | --- | 0 | --- | --- | --- | --- | --- | --- | --- |
| 12/1/2000 | 54.83 | 4.84 | 54.83 | 4.84 | --- | --- | --- | --- | --- | 0 | --- | --- | --- | --- | --- | --- | --- |
| 1/8/2001 | 54.83 | 4.84 | 2,800 | 570 | ND<170 | 23 | 2.4 | 12 | 4.8 | 42.2 | 74 | ND>20 | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 |
| 2/6/2001 | 55.47 | 4.20 | 54.87 | 4.80 | --- | --- | --- | --- | --- | 0 | --- | --- | --- | --- | --- | --- | --- |
| 3/1/2001 | 54.87 | 4.80 | 54.69 | 4.98 | --- | --- | --- | --- | --- | 0 | --- | --- | --- | --- | --- | --- | --- |
| 4/20/2001 | 54.40 | 4.00 | 54.42 | 5.25 | --- | --- | --- | --- | --- | 0 | --- | --- | --- | --- | --- | --- | --- |
| 5/8/2001 | 6/8/2001 | 53.69 | 5.98 | 53.21 | 6.46 | 2,300 | 190 | ND<170 | 25 | 3.6 | 18 | 942 | 56,02 | 130 | ND>5.0 | ND<1.0 | ND<1.0 |
| 7/16/2001 | 52.69 | 6.98 | 52.15 | 7.52 | --- | --- | --- | --- | --- | 0 | --- | --- | --- | --- | --- | --- | --- |
| 8/7/2001 | 52.13 | 7.54 | 4,300 | 350 | ND<170 | 25 | 2.2 | 15 | 7.5 | 49.7 | 94 | 53 | 9.2 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 |
| 9/17/2001 | 55.60 | 4.07 | 2,100 | 99 | --- | 16 | 3.9 | 24 | 8.5 | 52.4 | 20 | 25 | 2.6 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 |
| 10/24/2001 | 54.85 | 4.82 | 54.85 | 4.82 | 2,300 | 130 | ND<170 | 18 | 2.6 | 16 | 3.6 | 40.2 | 8.7 | ND>5.0 | 1.0 | ND<1.0 | ND<1.0 |
| 11/6/2001 | 53.11 | 6.56 | 56.52 | 3.15 | 1,500 | 130 | ND<170 | 6.6 | 1.2 | 7.3 | 8.4 | 23.5 | 9.9 | ND>5.0 | ND<1.0 | ND<1.0 | ND<1.0 |
| 12/5/2001 | 56.52 | 3.15 | 2,112/2003 | 4.25 | 410 | ND<50 | ND<170 | 0.5 | 0.5 | 0.5 | 0.50 | 2 | ND<1.0 | ND<20 | ND<1.0 | ND<1.0 | ND<1.0 |
| 1/2/2002 | 55.42 | 4.25 | 54.79 | 4.88 | 3,200 | ND<50 | ND<170 | 13 | 4.6 | 17 | 4.8 | 39.4 | 15 | ND>20 | 1.1 | ND<1.0 | ND<1.0 |
| 2/9/2002 | 54.82 | 4.82 | 52.47 | 7.20 | 1,700 | ND<50 | ND<170 | 7.0 | 1.3 | 7.7 | 3.5 | 12.9 | 1.8 | ND<20 | ND<1.0 | ND<1.0 | ND<1.0 |
| 3/15/2002 | 51.72 | 7.95 | 56.71 | 2.96 | 4,500 | 320 | ND<170 | 31 | 3.8 | 17 | 1.2 | 63.8 | ND>70 | ND<20 | 2.8 | ND<1.0 | ND<1.0 |
| 4/2/2002 | 54.27 | 5.40 | 54.27 | 5.40 | 130 | ND<50 | ND<170 | 0.5 | 0.5 | 0.5 | 0.5 | 2 | ND<1.0 | ND<10 | ND<1.0 | ND<1.0 | ND<1.0 |
| 5/4/2002 | 52.12 | 7.55 | 1,400 | 180 | ND<170 | 4.7 | 0.87 | 3.7 | 1.5 | 10.77 | ND<6.0 | ND<10 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 |
| 6/3/2002 | 54.27 | 5.40 | 55.07 | 4.60 | ND<50 | ND<50 | ND<170 | 0.5 | 0.5 | 0.5 | 0.5 | 2 | ND<1.0 | ND<10 | ND<1.0 | ND<1.0 | ND<1.0 |
| 7/1/2002 | 54.62 | 5.05 | 53.29 | 6.38 | 3,900 | 370 | ND<170 | 4.4 | 3.7 | 18 | 6.78 | 32.88 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 |
| 8/2/2002 | 52.43 | 7.24 | 4,400 | 2,400 | 290 | ND<50 | ND<170 | 3.6 | 1.5 | 12 | 3.61 | 20.71 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 |
| 9/1/2002 | 57.38 | 2.29 | ND<50 | ND<50 | ND<50 | ND<170 | 0.50 | 0.50 | 0.50 | 0.50 | 0.5 | 3.45 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | All ND<1.0 |
| 10/31/2002 | 55.22 | 4.45 | 4,100 | 240 | ND<170 | 4.4 | 7.0 | 44 | 17.8 | 73.2 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | All ND<1.0 |
| 11/1/2002 | 57.38 | 2.29 | ND<50 | ND<50 | ND<50 | ND<170 | 0.50 | 0.50 | 0.50 | 0.50 | 0.5 | 2 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | All ND<1.0 |
| 12/2/2002 | 54.45 | 4.45 | 4,100 | 240 | ND<170 | 4.4 | 7.0 | 44 | 17.8 | 73.2 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | All ND<1.0 |

TABLE 2: MONITORING WELL DATA AND GROUNDWATER ANALYTICAL RESULTS
 Fortuna Shell; 899 Main St., Fortuna, California
 LOP No. 12672; LACO No. 156703

Groundwater Measurements

Analytical Results

| WELL Sample Date | Well Head Elevation (feet NAVD 88) | Hydraulic Head Elevation (feet NAVD 88) | Depth to Water (feet) | TPHg (µg/L) | TPHd (µg/L) | TPHmo (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | TBA (µg/L) | TAME (µg/L) | ETBE (µg/L) | DiPE (µg/L) | Other Analytes (µg/L) |
|------------------|------------------------------------|---|-----------------------|-------------|-------------|--------------|----------------|----------------|---------------------|----------------------|-------------|------------|-------------|-------------|-------------|-----------------------|
| MW2 | | | | | | | | | | | | | | | | |
| 8/4/2000 | 59.45 | Screened Interval = 5-10 feet bgs | 53.49 | 5.96 | --- | --- | --- | --- | --- | --- | 49 | 251.6 | 790 | ND<50 | 82 | ND<2.5 |
| 8/7/2000 | 53.45 | 6.00 | 8,000 | 330 | ND<170 | 160 | 8.6 | 34 | --- | --- | --- | --- | --- | --- | --- | --- |
| 9/8/2000 | 52.62 | 6.83 | --- | --- | --- | --- | --- | --- | 0 | 0 | 0 | --- | --- | --- | --- | --- |
| 10/12/2000 | 52.12 | 7.33 | --- | --- | --- | --- | --- | --- | 0 | 0 | 0 | --- | --- | --- | --- | --- |
| 11/3/2000 | 53.98 | 5.47 | 8,600 | 510 | ND<170 | 130 | 6.2 | 25 | 32 | 193.2 | 680 | 420 | 86 | ND<2.5 | ND<2.5 | ND<2.5 |
| 12/12/2000 | 54.59 | 4.86 | --- | --- | --- | --- | --- | --- | 0 | 0 | 0 | --- | --- | --- | --- | --- |
| 1/8/2001 | 54.87 | 4.58 | --- | --- | --- | --- | --- | --- | 0 | 0 | 0 | --- | --- | --- | --- | --- |
| 2/6/2001 | 54.68 | 4.77 | 8,200 | 590 | ND<170 | 150 | 9.6 | 39 | 40 | 238.6 | 310 | ND<50 | ND>5.0 | ND>5.0 | ND>5.0 | ND>5.0 |
| 3/12/2001 | 55.04 | 4.41 | --- | --- | --- | --- | --- | --- | 0 | 0 | 0 | --- | --- | --- | --- | --- |
| 4/20/2001 | 54.91 | 4.54 | --- | --- | --- | --- | --- | --- | 0 | 0 | 0 | --- | --- | --- | --- | --- |
| 5/8/2001 | 54.65 | 4.80 | 8,000 | 950 | ND<200 | 110 | 6.9 | 30 | 32 | 178.9 | 280 | ND<25 | ND<2.5 | ND<2.5 | ND<2.5 | ND<2.5 |
| 6/8/2001 | 54.42 | 5.03 | --- | --- | --- | --- | --- | --- | 0 | 0 | 0 | --- | --- | --- | --- | --- |
| 7/16/2001 | 53.75 | 5.70 | --- | --- | --- | --- | --- | --- | 0 | 0 | 0 | --- | --- | --- | --- | --- |
| 8/7/2001 | 53.23 | 6.22 | 5,900 | 300 | ND<170 | 47 | 4.5 | 17 | 19 | 87.5 | 180 | ND<25 | ND<2.5 | ND<2.5 | ND<2.5 | ND<2.5 |
| 9/17/2001 | 52.74 | 6.71 | --- | --- | --- | --- | --- | --- | 0 | 0 | 0 | --- | --- | --- | --- | --- |
| 10/24/2001 | 52.25 | 7.20 | --- | --- | --- | --- | --- | --- | 0 | 0 | 0 | --- | --- | --- | --- | --- |
| 11/6/2001 | 52.17 | 7.28 | 8,400 | 580 | ND<170 | 100 | 8.7 | 33 | 33 | 174.7 | 160 | ND<50 | 15 | ND<5.0 | ND<5.0 | ND<5.0 |
| 2/5/2002 | 54.81 | 4.64 | 9,900 | 460 | --- | 160 | 13 | 71 | 51 | 295 | 170 | 100 | 21 | ND<3.0 | ND<3.0 | ND<3.0 |
| 5/9/2002 | 54.81 | 4.64 | 7,800 | 360 | ND<170 | 100 | 8.6 | 44 | 37 | 189.6 | 54 | ND<30 | 6.1 | ND<3.0 | ND<3.0 | ND<3.0 |
| 8/15/2002 | 50.84 | 8.61 | 6,400 | 720 | ND<170 | 110 | 11 | 42 | 44 | 207 | 65 | ND<40 | 5.6 | ND<4 | ND<4 | ND<4 |
| 12/20/2002 | 56.25 | 3.20 | 5,200 | 330 | ND<170 | 20 | 5 | 18 | 16 | 59 | ND<20 | ND<200 | ND<10 | ND<10 | ND<10 | ND<10 |
| 2/11/2003 | 54.93 | 4.52 | 7,900 | 610 | ND<170 | 100 | 10 | 50 | 49.3 | 209.3 | ND<300 | 92 | 10 | ND<1.0 | ND<1.0 | 1,2-EDB=1.1 |
| 5/13/2003 | 55.39 | 4.06 | 6,200 | 600 | ND<170 | 51 | 7.7 | 41 | 37.8 | 137.5 | ND<100 | ND<20 | 5.2 | ND<1.0 | ND<1.0 | 1,2-DCA=1.2 |
| 8/14/2003 | 52.40 | 7.05 | 9,400 | 810 | ND<170 | 70 | 7.3 | 34 | 29.7 | 141 | ND<180 | 31 | 7.6 | ND<1.0 | ND<1.0 | ND<1.0 |
| 11/4/2003 | Well was inaccessible | | | --- | --- | --- | --- | --- | 0 | 0 | --- | --- | --- | --- | --- | --- |
| 2/2/2004 | 56.17 | 3.28 | 5,900 | 730 | ND<170 | 21 | 5.4 | 27 | 20.3 | 73.7 | ND<14 | ND<10 | 1.1 | ND<1.0 | ND<1.0 | ND<1.0 |
| 5/4/2004 | 54.20 | 5.25 | 7,000 | 500 | ND<170 | 60 | 11 | 51 | 40 | 162 | ND<45 | ND<20 | 2.4 | ND<1.0 | ND<1.0 | ND<1.0 |
| 8/3/2004 | 52.13 | 7.32 | 7,300 | 740 | ND<170 | 47 | 7.9 | 39 | 31.3 | 125.2 | ND<36 | ND<10 | 1.8 | ND<1.0 | ND<1.0 | ND<1.0 |
| 11/10/2004 | 54.14 | 5.31 | 6,300 | 980 | ND<170 | 32 | 6.3 | 34 | 27.2 | 99.5 | ND<15 | ND<10 | 1.0 | ND<1.0 | ND<1.0 | ND<1.0 |
| 2/1/2005 | 55.03 | 4.42 | 7,600 | 220 | ND<170 | 34 | 6.3 | 41 | 35.6 | 116.9 | ND<10 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 |
| 5/3/2005 | 54.70 | 4.75 | 11,000 | 990 | ND<170 | 30 | 5.7 | 33 | 26.3 | 95 | ND<10 | ND<15 | 1.1 | ND<1.0 | ND<1.0 | ND<1.0 |
| 8/2/2005 | 53.34 | 6.11 | 4,500 | 820 | ND<170 | 23 | 5.4 | 26 | 20 | 74.4 | ND<7 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 |
| 11/1/2005 | 52.38 | 7.07 | 6,100 | 500 | ND<170 | 28 | 4.4 | 24 | 18 | 74.4 | ND<7.0 | ND<1.0 | ND<1.0 | ND<1.0 | All ND<1.0 | All ND<1.0 |
| 5/31/2006 | 56.14 | 3.31 | 4,700 | 570 | ND<170 | 4 | 2.4 | 18 | 12.84 | 37.24 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | All ND<1.0 | All ND<1.0 |
| 5/22/2006 | 55.23 | 4.22 | 5,800 | 630 | ND<170 | 18 | 6.3 | 40 | 26.6 | 90.9 | ND<10 | ND<1.0 | ND<1.0 | ND<1.0 | All ND<1.0 | All ND<1.0 |

TABLE 2: MONITORING WELL DATA AND GROUNDWATER ANALYTICAL RESULTS
 Fortuna Shell: 808 Main St., Fortuna, California
 LOP No. 12672; LACO No. 4563-03

Groundwater Measurements

Analytical Results

| WELL Sample Date | Well Head Elevation (feet NAVD 88) | Hydraulic Head Elevation (feet NAVD 88) | Depth to Water (feet) | TPHg (µg/L) | TPHd (µg/L) | TPHmo (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | TAME (µg/L) | ETBE (µg/L) | DIPE (µg/L) | TBA (µg/L) | TAME (µg/L) | Other Analytes (µg/L) |
|------------------|------------------------------------|---|-----------------------|-------------|-------------|--------------|----------------|----------------|---------------------|----------------------|-------------|-------------|-------------|-------------|------------|-------------|-----------------------|
| | | | | | | | | | | | | | | | | | |
| MW3 8/4/2000 | 59.25 | Screened Interval = 5.12 feet bgs | 53.06 | 6.19 | --- | --- | --- | 4.3 | 4 | 4 | 16.3 | 5,600 | 2,500 | --- | --- | --- | --- |
| 8/7/2000 | 53.11 | 6.14 | 2,300 | 74 | ND<170 | 4.3 | 4 | 4 | 4 | 4 | 0 | --- | 550 | --- | --- | --- | --- |
| 9/8/2000 | 52.58 | 6.67 | --- | --- | --- | --- | --- | --- | --- | 0 | 0 | --- | --- | --- | --- | --- | --- |
| 10/1/2000 | 53.46 | 5.79 | 2,000 | 59 | ND<170 | 2 | 2 | 2 | 2 | 8 | 4,000 | 1,300 | 490 | ND<5.0 | ND<5.0 | --- | --- |
| 11/3/2000 | 53.85 | 5.40 | --- | --- | --- | --- | --- | --- | 0 | 0 | --- | --- | --- | --- | --- | --- | --- |
| 12/1/2000 | 53.94 | 5.31 | --- | --- | --- | --- | --- | --- | 0 | 0 | --- | --- | --- | --- | --- | --- | --- |
| 1/8/2001 | 53.32 | 4.93 | 1,900 | ND<50 | ND<170 | 7.6 | 5 | 5 | 5 | 22.6 | 2,000 | ND<100 | 200 | ND<10 | ND<10 | ND<10 | ND<10 |
| 2/6/2001 | 53.70 | 5.55 | --- | --- | --- | --- | --- | --- | 0 | 0 | --- | --- | --- | --- | --- | --- | --- |
| 3/12/2001 | 54.23 | 5.02 | --- | --- | --- | --- | --- | --- | 0 | 0 | --- | --- | --- | --- | --- | --- | --- |
| 4/20/2001 | 53.92 | 5.33 | 1,200 | 56 | ND>200 | 1.4 | 1.3 | 1.3 | 1.3 | 5.3 | 1100 | 270 | 130 | ND<2.5 | ND<2.5 | ND<2.5 | ND<2.5 |
| 5/8/2001 | 53.68 | 5.57 | --- | --- | --- | --- | --- | --- | 0 | 0 | --- | --- | --- | --- | --- | --- | --- |
| 6/8/2001 | 53.16 | 6.09 | --- | --- | --- | --- | --- | --- | 0 | 0 | --- | --- | --- | --- | --- | --- | --- |
| 7/16/2001 | 52.95 | 6.30 | 740 | 5.1 | ND<50 | ND<170 | 5.1 | 1.3 | 1.3 | 1.3 | 9 | 970 | 200 | 94 | ND<2.5 | ND<2.5 | ND<2.5 |
| 8/7/2001 | 52.75 | 6.50 | --- | --- | --- | --- | --- | --- | 0 | 0 | --- | --- | --- | --- | --- | --- | --- |
| 9/17/2001 | 52.22 | 7.03 | --- | --- | --- | --- | --- | --- | 0 | 0 | --- | --- | --- | --- | --- | --- | --- |
| 10/24/2001 | 51.92 | 7.33 | 880 | ND<50 | ND<170 | 1.5 | 1 | 1 | 1 | 4.5 | 1,100 | 160 | 99 | ND<2.0 | ND<2.0 | ND<2.0 | ND<2.0 |
| 11/6/2001 | 54.58 | 4.67 | 600 | ND<50 | --- | 0.74 | 0.5 | 0.5 | 0.5 | 2.24 | 740 | 310 | 86 | 2.2 | 2.2 | ND<1.0 | ND<1.0 |
| 2/5/2002 | 54.23 | 5.02 | 920 | ND<50 | ND<170 | 5.3 | 0.5 | 0.81 | 0.5 | 7.11 | 470 | 100 | 40 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 |
| 5/9/2002 | 52.96 | 6.29 | 590 | 71 | ND<170 | 6.3 | 0.56 | 0.95 | 1.8 | 9.61 | 420 | 150 | 30 | 1.1 | 1.1 | ND<1.0 | ND<1.0 |
| 8/15/2002 | 54.97 | 4.28 | 99 | ND<50 | ND<170 | 0.90 | 0.5 | 0.5 | 0.5 | 0.59 | 2.49 | 91 | ND<70 | 4 | ND<1.0 | ND<1.0 | ND<1.0 |
| 12/7/2002 | 54.54 | 4.71 | 740 | ND<50 | ND<170 | 2.8 | 1.1 | 0.5 | 0.5 | 5.06 | 9.46 | 720 | 300 | 57 | ND<1.0 | ND<1.0 | ND<1.0 |
| 2/11/2003 | 54.96 | 4.29 | 1,300 | 220 | ND<170 | 25.0 | 4.3 | 1.2 | 22.9 | 53.4 | 680 | 300 | 60 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 |
| 5/13/2003 | 52.36 | 6.89 | 820 | 95 | ND<50 | ND<170 | 3.4 | 0.7 | 0.5 | 3.9 | 8.5 | 1,000 | 180 | 73 | ND<1.0 | ND<1.0 | ND<1.0 |
| 8/14/2003 | 51.79 | 7.46 | 650 | ND<50 | ND<170 | 0.5 | 0.5 | 1.54 | 3.04 | 940 | 78 | 65 | 1.2 | 1.2 | ND<1.0 | ND<1.0 | ND<1.0 |
| 2/2/2004 | 55.27 | 3.96 | 3,600 | 490 | ND<170 | 26 | 1.4 | 0.81 | 6.4 | 34.61 | 180 | 79 | 15 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 |
| 5/4/2004 | 53.84 | 5.41 | 2,200 | 310 | ND<170 | 4.6 | 1.0 | 0.5 | 2.58 | 8.68 | 81 | ND<40 | 5.3 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 |
| 8/3/2004 | 52.06 | 7.19 | 960 | 140 | ND<170 | 0.68 | 0.5 | 1.32 | 3 | 220 | 42 | 14 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 |
| 11/10/2004 | 53.31 | 5.94 | 910 | 190 | ND<170 | 0.5 | 0.5 | 0.5 | 0.5 | 2 | 290 | ND<50 | 19 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 |
| 2/1/2005 | 54.46 | 4.79 | 2,900 | 460 | ND<170 | 8.4 | 0.89 | 0.56 | 3.5 | 13.35 | 44 | ND<30 | 3.1 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 |
| 5/3/2005 | 53.58 | 5.67 | 1,600 | 280 | ND<170 | 1.1 | 0.5 | 1.29 | 3.39 | 23 | ND<20 | 2.0 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 |
| 8/2/2005 | 53.03 | 6.22 | 830 | 160 | ND<170 | 0.5 | 0.5 | 0.5 | 0.5 | 2 | 45 | ND<20 | 3.2 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 |
| 11/1/2005 | 51.94 | 7.31 | 280 | 69 | ND<170 | 0.5 | 0.5 | 0.5 | 0.5 | 2 | 76 | ND<22 | 4.7 | ND<1.0 | All ND<1.0 | All ND<1.0 | All ND<1.0 |
| 1/31/2006 | 55.35 | 3.90 | 2,000 | 270 | 200 | 2.5 | 0.76 | 0.67 | 2.2 | 6.13 | 8.1 | ND<10 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 |
| 5/22/2006 | 54.72 | 4.53 | 1,800 | 210 | ND<170 | 2.8 | 0.58 | 1.66 | 5.0 | 6.7 | 1.0 | ND<10 | 1.0 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 |

TABLE 2: MONITORING WELL DATA AND GROUNDWATER ANALYTICAL RESULTS
 Fortuna Shell, 809 Main St., Fortuna, California
 LOP No. 12672, LACO No. 4563.03

Groundwater Measurements

Analytical Results

| WELL Sample Date | Well Head Elevation (feet NAVD 88) | Hydraulic Head Elevation (feet NAVD 88) | Depth to Water (feet) | TPHg (µg/L) | TPHd (µg/L) | TPHmo (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | TAME (µg/L) | ETBE (µg/L) | DPE (µg/L) | Other Analytes (µg/L) |
|------------------|------------------------------------|---|-----------------------|-------------|-------------|--------------|----------------|----------------|---------------------|----------------------|-------------|-------------|-------------|------------|-----------------------|
| MW4 | 59.96 | Screened Interval = 5-10 feet TGS | | | | | | | | | | | | | |
| 8/4/2000 | 53.73 | 6.23 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 45 | ND<1.0 | ND<1.0 |
| 8/7/2000 | 53.67 | 6.29 | 14,000 | 530 | ND<170 | 900 | 32 | 69 | 159 | 1160 | 620 | --- | --- | --- | --- |
| 9/8/2000 | 52.85 | 7.11 | --- | --- | --- | --- | --- | 0 | 0 | --- | 0 | --- | --- | --- | --- |
| 10/12/2000 | 52.33 | 7.63 | --- | --- | --- | --- | --- | 0 | 0 | 782.5 | 180 | ND<100 | ND<5.0 | ND<5.0 | ND<5.0 |
| 11/3/2000 | 53.87 | 6.09 | 6,400 | 61 | ND<170 | 600 | 20 | 80 | 82.5 | 782.5 | 180 | ND<100 | ND<5.0 | ND<5.0 | ND<5.0 |
| 12/12/2000 | 54.67 | 5.29 | --- | --- | --- | --- | --- | 0 | 0 | 0 | 0 | --- | --- | --- | --- |
| 1/8/2001 | 54.72 | 5.24 | --- | --- | --- | --- | --- | 0 | 0 | 0 | 0 | --- | --- | --- | --- |
| 2/6/2001 | 55.21 | 4.75 | 5,400 | 550 | ND<170 | 540 | 12 | 47 | 38 | 637 | 140 | ND<100 | ND<10 | ND<10 | ND<10 |
| 3/12/2001 | 55.44 | 4.52 | --- | --- | --- | --- | --- | 0 | 0 | --- | 0 | --- | --- | --- | --- |
| 4/20/2001 | 55.21 | 4.75 | --- | --- | --- | --- | --- | 0 | 0 | --- | 0 | --- | --- | --- | --- |
| 5/8/2001 | 54.96 | 5.00 | 6,200 | 920 | ND<200 | 620 | 24 | 120 | 76.2 | 840.2 | 210 | ND<50 | ND<5.0 | ND<5.0 | ND<5.0 |
| 6/8/2001 | 54.84 | 5.12 | --- | --- | --- | --- | --- | 0 | 0 | 0 | 0 | --- | --- | --- | --- |
| 7/16/2001 | 54.04 | 5.92 | --- | --- | --- | --- | --- | 0 | 0 | 0 | 0 | --- | --- | --- | --- |
| 8/7/2001 | 53.43 | 6.53 | 5,900 | 520 | 570 | 660 | 26 | 130 | 98.8 | 914.8 | 190 | ND<100 | ND<10 | ND<10 | ND<10 |
| 9/17/2001 | 52.96 | 7.00 | --- | --- | --- | --- | --- | 0 | 0 | 0 | 0 | --- | --- | --- | --- |
| 10/24/2001 | 52.39 | 7.57 | --- | --- | --- | --- | --- | 0 | 0 | 0 | 0 | --- | --- | --- | --- |
| 11/6/2001 | 52.36 | 7.60 | 7,200 | 200 | ND<170 | 670 | 30 | 100 | 77 | 877 | 120 | ND<100 | ND<10 | ND<10 | ND<10 |
| 2/5/2002 | 55.56 | 4.40 | 4,800 | 83 | --- | 340 | 14 | 48 | 27 | 429 | 100 | 32 | 5.8 | ND<3.0 | ND<3.0 |
| 5/9/2002 | 55.47 | 4.49 | 3,800 | 260 | ND<170 | 360 | 19 | 74 | 48.6 | 441.6 | 52 | ND<30 | ND<3.0 | ND<3.0 | ND<3.0 |
| 8/15/2002 | 54.07 | 5.89 | 4,700 | 280 | ND<170 | 350 | 21 | 82 | 46.7 | 499.7 | 81 | ND<50 | ND<5.0 | ND<5.0 | ND<5.0 |
| 12/20/2002 | 55.80 | 4.16 | 6,900 | 260 | ND<170 | 430 | 32 | 97 | 52 | 611 | ND<150 | ND<50 | ND<50 | ND<50 | ND<50 |
| 2/17/2003 | 55.58 | 4.38 | 5,700 | 64 | ND<170 | 430 | 24 | 57 | 55.9 | 566.9 | 500 | 230 | 28 | 1.1 | ND<1.0 |
| 5/13/2003 | 54.91 | 5.05 | 5,500 | 500 | ND<170 | 360 | 27 | 85 | 65.7 | 537.7 | ND<200 | 47 | 8.1 | ND<1.0 | ND<1.0 |
| 8/14/2003 | 52.90 | 7.06 | 7,400 | 440 | ND<170 | 480 | 22 | 79 | 47.4 | 628.4 | 120 | 51 | 5.6 | 1.1 | ND<1.0 |
| 11/4/2003 | 52.01 | 7.95 | 10,000 | 700 | ND<170 | 600 | 35 | 110 | 71.8 | 816.8 | ND<50 | 4.4 | ND<1.0 | ND<1.0 | 1,2-DCA=1.0 |
| 2/22/2004 | 56.19 | 3.77 | 8,400 | 740 | ND<170 | 450 | 27 | 85 | 63 | 625 | ND<150 | ND<60 | 4.6 | ND<1.0 | ND<1.0 |
| 5/4/2004 | 54.77 | 5.19 | 3,500 | 120 | ND<170 | 74 | 8.5 | 26 | 27.1 | 135.6 | ND<50 | 2.0 | ND<1.0 | ND<1.0 | ND<1.0 |
| 8/3/2004 | 52.65 | 7.31 | 420 | ND<50 | ND<170 | 43 | 0.66 | 2.1 | 1.9 | 8.96 | ND<10 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 |
| 11/10/2004 | 54.16 | 5.80 | 190 | ND<50 | ND<170 | 1.1 | 0.5 | 0.95 | 0.99 | 3.54 | ND<2.0 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 |
| 2/17/2005 | 55.48 | 4.48 | 170 | ND<50 | ND<170 | 0.71 | 0.5 | 0.5 | 0.5 | 2.21 | ND<4.0 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 |
| 5/5/2005 | 55.35 | 4.61 | 300 | ND<50 | ND<170 | 1.3 | 0.5 | 0.5 | 0.55 | 2.85 | 1.8 | ND<15 | ND<1.0 | ND<1.0 | ND<1.0 |
| 8/2/2005 | 53.93 | 6.03 | 220 | 60 | ND<170 | 26 | 0.5 | 0.5 | 0.5 | 4.1 | 1.7 | ND<10 | ND<1.0 | ND<1.0 | ND<1.0 |
| 11/1/2005 | 52.51 | 7.45 | 2,300 | 240 | ND<170 | 9.5 | 1.2 | 9.1 | 5.0 | 24.8 | ND<8.0 | 41 | ND<1.0 | ND<1.0 | All ND<1.0 |
| 1/31/2006 | 56.42 | 3.54 | 1,100 | 130 | ND<170 | 5.4 | 0.58 | 3.1 | 0.94 | 10.02 | ND<6.0 | ND<50 | ND<1.0 | All ND<1.0 | All ND<1.0 |
| 5/22/2006 | 55.89 | 4.07 | 1,600 | 140 | ND<170 | 8.5 | 0.90 | 5.7 | 1.5 | 16.6 | 3.5 | ND<70 | ND<1.0 | ND<1.0 | All ND<1.0 |

TABLE 2: MONITORING WELL DATA AND GROUNDWATER ANALYTICAL RESULTS
 Fortuna Shell, 809 Main St., Fortuna, California
 LOP No. 12672, LACO No. 4563.03

Groundwater Measurements

Analytical Results

| WELL Sample Date | Well Head Elevation (feet NAVD 88) | Hydraulic Head Elevation (feet NAVD 88) | Depth to Water (feet) | Screened Interval = 5-10 feet TDS | | | | | Total Xylenes (µg/L) | | | | | Other Analytes (µg/L) | | |
|------------------|------------------------------------|---|-----------------------|-----------------------------------|-------------------|--------------|----------------|----------------|----------------------|-------------|---------------|-------------|--------------|-----------------------|--------------|------------|
| | | | | TPHg (µg/L) | TPHd (µg/L) | TPHno (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | MTBE (µg/L) | TBA (µg/L) | TAME (µg/L) | ETBE (µg/L) | DBP (µg/L) | DiPDE (µg/L) | |
| MW5 8/4/2000 | 53.10 | 6.37 | 23,000 | 1,900 | ND<170 | 3,600 | 61 | 590 | 1,556 | 5807 | 4,500 | ND<500 | ND<25 | ND<25 | ND<25 | |
| 9/8/2000 | 53.31 | 6.16 | 52.47 | 7,00 | ... 17,000 | 930 | 2,500 | 60 | ... 800 | 940 | 4300 | 2,300 | ND<500 | ND<25 | ND<25 | |
| 10/12/2000 | 53.59 | 5.88 | 54.28 | 5.19 | ... 14,000 | 2,300 | ... 2,300 | ... 48 | ... 510 | 555 | 3413 | 1,700 | ND<500 | ND<25 | ND<25 | |
| 11/3/2000 | 54.26 | 5.21 | 54.45 | 5.02 | 17,000 | 890 | ND<170 | 2,610 | 49 | 370 | 320 | 3339 | 2,300 | ND<50 | ND<50 | |
| 12/12/2000 | 54.45 | 4.64 | 54.83 | 4.64 | ... 14,000 | 1,100 | 330 | 2,200 | 52 | 390 | 420 | 3062 | 2,000 | ND<250 | ND<25 | |
| 1/8/2001 | 54.76 | 4.71 | 54.56 | 4.91 | ... 14,000 | 1,300 | ND>200 | 2,300 | ... 48 | 510 | 555 | 3413 | 1,700 | ND<500 | ND<25 | |
| 2/6/2001 | 54.45 | 5.02 | 53.68 | 5.79 | ... 14,000 | 1,100 | ... 1,100 | ... 2,200 | ... 52 | ... 390 | ... 420 | ... 3062 | ... 2,000 | ... ND<250 | ... ND<25 | |
| 3/12/2001 | 53.33 | 6.14 | 52.98 | 6.49 | ... 10/24/2001 | 6.99 | 52.48 | 7.13 | 20,000 | 1,100 | 420 | 2,500 | 48 | 550 | 3591 | 2,300 |
| 4/20/2001 | 54.56 | 4.91 | 54.45 | 5.02 | ... 7/16/2001 | 5.79 | 53.68 | 6.14 | 15,000 | 660 | ... 10,000 | 2,100 | 42 | 390 | 391 | 2923 |
| 5/8/2001 | 54.56 | 4.91 | 54.45 | 5.02 | ... 8/7/2001 | 6.14 | 53.33 | 6.14 | 10,000 | 810 | 216 | 1,400 | 33 | 260 | 270 | 1963 |
| 6/8/2001 | 54.45 | 5.02 | 53.33 | 6.14 | ... 9/17/2001 | 6.49 | 52.98 | 6.49 | 13,000 | 1,300 | 960 | 1,200 | 33 | 280 | 280 | 790 |
| 7/16/2001 | 53.68 | 5.79 | 52.48 | 6.99 | ... 10/24/2001 | 7.13 | 52.34 | 7.13 | 20,000 | 1,100 | 420 | 2,500 | 48 | 550 | 3591 | 2,300 |
| 8/7/2001 | 54.56 | 4.91 | 55.26 | 4.21 | ... 5/9/2002 | 5.79 | 54.76 | 5.79 | 15,000 | 660 | ... 10,000 | 2,100 | 42 | 390 | 391 | 2923 |
| 9/17/2001 | 54.56 | 4.91 | 54.76 | 5.79 | ... 8/15/2002 | 5.79 | 53.68 | 6.14 | 10,000 | 810 | 216 | 1,400 | 33 | 260 | 270 | 1963 |
| 10/24/2001 | 54.45 | 5.02 | 53.33 | 6.14 | ... 12/20/2002 | 6.99 | 53.68 | 6.14 | 13,000 | 1,300 | 960 | 1,200 | 33 | 280 | 280 | 790 |
| 11/6/2001 | 55.23 | 4.24 | 54.76 | 5.79 | ... 12/20/2002 | 4.24 | 55.23 | 4.24 | 40,000 | 6,900 | 13,000 | 1,800 | 51 | 460 | 380 | 2691 |
| 12/20/2002 | 55.23 | 4.24 | 56.06 | 3.41 | 13,000 | 880 | 1,200 | 1,500 | 34 | 200 | 239,7 | 1973,7 | 710 | 230 | 25 | 3.5 |
| 1/11/2003 | 54.79 | 4.68 | 53.09 | 1.00 | 13,000 | 1,100 | 1,100 | 1,000 | 33 | 230 | 1493 | 590 | ND<1000 | ND<50 | ND<50 | ND<50 |
| 2/1/2003 | 54.79 | 4.68 | 53.09 | 1.00 | 18,000 | 1,500 | 610 | 1,700 | 44 | 340 | 240 | 2324 | 760 | ND<1000 | ND<50 | ND<50 |
| 3/1/2003 | 52.25 | 7.22 | 52.25 | 7.22 | 19,000 | 2,200 | 3,000 | 1,500 | 33 | 340 | 259,4 | 2132,4 | ND<1200 | ND<200 | 17 | ND<10 |
| 4/1/2003 | 56.17 | 3.30 | 56.17 | 3.30 | 31,000 | 6,500 | 5,100 | 1,500 | 29 | 240 | 208,1 | 1777,1 | 680 | 99 | 16 | ND<5.5 |
| 5/4/2004 | 54.59 | 4.88 | 52.92 | 6.55 | 21,000 | 2,900 | 1,100 | 1,600 | 37 | 310 | 217,4 | 2064,4 | ND<1000 | 82 | 14 | 2.3 |
| 6/3/2004 | 54.59 | 4.88 | 54.79 | 5.33 | 140,000 | 25,000 | 12,000 | 830 | 20 | 400 | 2812 | 220 | 160 | 530 | ND<50 | ND<50 |
| 7/1/2004 | 54.14 | 5.33 | 53.09 | 6.38 | 23,000 | 6,000 | 3,200 | 910 | 24 | 130 | 134,1 | 1198,1 | 400 | 34 | 8,1 | 2 |
| 8/1/2004 | 54.86 | 4.61 | 52.25 | 4.19 | 21,000 | 3,900 | 2,000 | 640 | 18 | 180 | 112,5 | 950,5 | 210 | 75 | 6,9 | 1.4 |
| 9/1/2004 | 55.28 | 5.45 | 54.02 | 5.45 | 29,000 | 8,000 | 3,500 | 550 | 18 | 56 | 153,2 | 777,2 | ND<300 | 53 | 4,3 | 1.2 |
| 10/1/2004 | 51.70 | 7.77 | 51.70 | 7.77 | 13,000 | 12,000 | 7,100 | 630 | 15 | 97 | 80 | 822 | ND<400 | 61 | 6,2 | ND<1.0 |
| 11/1/2004 | 55.98 | 3.49 | 6,900 | 550 | 180 | 490 | 15 | 93 | 77 | 675 | ND<300 | ND<50 | 52 | ND<1.0 | All ND<1.0 | All ND<1.0 |
| 12/1/2004 | 55.33 | 4.14 | 9,300 | 780 | ND<170 | 280 | 14 | 140 | 80,6 | 514,6 | ND<60 | ND<50 | 2,6 | ND<1,0 | All ND<1,0 | All ND<1,0 |

TABLE 2: MONITORING WELL DATA AND GROUNDWATER ANALYTICAL RESULTS
 Fortuna Shell: 809 Main St., Fortuna, California
 LOP No. 12672; LACO No. 4563-03

Groundwater Measurements

Analytical Results

| WELL Sample Date | Well Head Elevation (feet NAVD 88) | Hydraulic Head Elevation (feet NAVD 88) | Depth to Water (feet) | Screened Interval = 12-30 feet bgs | TPHg (µg/L) | TPHd (µg/L) | TPHmo (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | TAME (µg/L) | ETBE (µg/L) | DPE (µg/L) | DiPE (µg/L) | Other Analytes (µg/L) |
|------------------|------------------------------------|---|-----------------------|------------------------------------|-------------|-------------|--------------|----------------|----------------|---------------------|----------------------|-------------|-------------|-------------|------------|-------------|-----------------------|
| MW6 8/4/2000 | 60.06 | 52.86 | 7.20 | 7.20 | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 8/7/2000 | 52.14 | 7.92 | 1,200 | ND<170 | 2.6 | 2.5 | 1.1 | 1.9 | 8.1 | 820 | — | — | — | — | — | 5.4 | 3.0 |
| 9/8/2000 | 51.64 | 8.42 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 10/12/2000 | 50.96 | 9.10 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 11/3/2000 | 51.51 | 8.55 | 670 | ND<50 | ND<170 | 1.6 | 0.5 | 0.5 | 0.65 | 3.25 | 900 | 130 | 10 | 8.8 | 5.0 | 1,2 DCA=8.5 | |
| 12/12/2000 | 53.24 | 6.82 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 1/8/2001 | 52.99 | 7.07 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 2/6/2001 | 53.55 | 6.51 | 900 | ND<50 | ND<170 | 2.5 | 2.5 | 2.5 | 2.5 | 10 | 1,200 | ND<50 | 35 | 7.8 | ND<5.0 | 1,2 DCA=7.3 | |
| 3/1/2001 | 52.75 | 7.31 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 4/20/2001 | 55.35 | 4.71 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 5/8/2001 | 52.49 | 7.57 | 570 | 51 | ND<200 | 1.5 | 2.5 | 2.5 | 2.5 | 9 | 860 | 68 | 37 | 5.0 | ND<2.5 | 1,2 DCA=4.6 | |
| 6/8/2001 | 52.34 | 7.72 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 7/6/2001 | 52.24 | 7.82 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 8/7/2001 | 51.91 | 8.15 | 680 | ND<50 | ND<170 | 1.3 | 1.3 | 1.3 | 1.3 | 5.2 | 1,100 | 200 | 38 | 6.4 | 2.6 | 1,2 DCA=4.9 | |
| 9/17/2001 | 51.59 | 8.47 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 10/24/2001 | 51.06 | 9.00 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 11/6/2001 | 50.84 | 9.22 | 750 | ND<50 | ND<170 | 1 | 1 | 1 | 1 | 4 | 910 | 150 | 35 | 4.9 | 2.1 | 1,2 DCA=3.9 | |
| 2/5/2002 | 54.17 | 5.89 | 710 | ND<50 | — | 1 | 1 | 1 | 1 | 4 | 1,300 | 350 | 92 | 7.8 | 3.1 | Pb Scav=3.7 | |
| 5/9/2002 | 53.79 | 6.27 | 630 | ND<50 | — | 2 | 2 | 2 | 2 | 6 | 1,100 | 160 | 54 | 3.5 | ND<3.0 | Pb Scav=3.5 | |
| 8/15/2002 | 52.88 | 7.18 | 930 | ND<50 | ND<170 | 1 | 1 | 1 | 1.7 | 4.7 | 980 | 160 | 54 | 5.1 | 2.3 | 1,2 DCA=2.4 | |
| 12/20/2002 | 54.47 | 5.59 | 910 | ND<50 | ND<170 | 1 | 1 | 1 | 0.5 | 2 | 1,200 | 480 | 64 | 4.9 | 2.7 | 1,2 DCA=4.0 | |
| 2/1/2003 | 54.39 | 5.67 | 1,100 | ND<50 | 0.58 | 1 | 0.5 | 0.5 | 0.5 | 2.08 | 1,300 | 450 | 74 | 5.2 | ND<4.0 | 1,2 DCA=3.6 | |
| 5/13/2003 | 54.53 | 5.53 | 380 | ND<50 | ND<170 | 1 | 1 | 1 | 1 | 2 | 960 | 180 | 62 | 3.6 | 1.5 | 1,2 DCA=3.1 | |
| 8/14/2003 | 51.35 | 8.71 | 720 | ND<50 | ND<170 | 1 | 1 | 1 | 1 | 2 | 1,000 | 210 | 72 | 4.8 | 2.1 | 1,2 DCA=2.4 | |
| 11/4/2003 | 49.54 | 10.52 | 670 | ND<50 | ND<170 | 1 | 1 | 1 | 1 | 2 | 1,000 | 190 | 58 | 3.5 | 1.7 | 1,2 DCA=2.3 | |
| 2/2/2004 | 53.95 | 6.11 | 1,100 | ND<50 | ND<170 | 1 | 1 | 1 | 1 | 2 | 1,100 | 270 | 64 | ND<8.0 | 2.0 | | |
| 5/4/2004 | 52.16 | 7.90 | 450 | ND<50 | ND<170 | 1 | 1 | 1 | 1 | 2 | 480 | 55 | 29 | 1.8 | ND<1.0 | | |
| 8/3/2004 | 50.44 | 9.62 | 160 | ND<50 | ND<170 | 1 | 1 | 1 | 1 | 2 | 180 | ND<22 | 6.9 | ND<1.0 | ND<1.0 | | |
| 11/10/2004 | 51.64 | 8.42 | ND<50 | ND<170 | 1 | 1 | 1 | 1 | 2 | 30 | ND<10 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | | |
| 2/1/2005 | 54.72 | 5.34 | ND<50 | ND<170 | 1 | 1 | 1 | 1 | 2 | 21 | ND<10 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | | |
| 5/3/2005 | 53.33 | 54.73 | ND<50 | ND<170 | 1 | 1 | 1 | 1 | 2 | 7 | ND<10 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | | |
| 8/2/2005 | 53.94 | 6.12 | ND<50 | ND<170 | 1 | 1 | 1 | 1 | 2 | 10 | ND<10 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | | |
| 11/1/2005 | 52.07 | 7.99 | ND<50 | ND<170 | 0.5 | 1 | 1 | 1 | 2 | 11 | ND<10 | ND<1.0 | ND<1.0 | ND<1.0 | All ND<1.0 | | |
| 1/31/2006 | 55.63 | 4.43 | ND<50 | ND<170 | 0.5 | 0.5 | 0.5 | 0.5 | 2 | 1.6 | ND<10 | ND<1.0 | ND<1.0 | ND<1.0 | All ND<1.0 | | |
| 5/2/2006 | 55.41 | 4.66 | ND<50 | ND<170 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | 0 | 10 | ND<10 | ND<1.0 | ND<1.0 | ND<1.0 | All ND<1.0 | | |

TABLE 2: MONITORING WELL DATA AND GROUNDWATER ANALYTICAL RESULTS
 Fortuna Shell, 809 Main St., Fortuna, California
 LOP No. 12672, LACO No. 4563/03

Groundwater Measurements

Analytical Results

| WELL Sample Date | Well Head Elevation (feet NAVD 88) | Hydraulic Head Elevation (feet NAVD 88) | Depth to Water (feet) | TPHg (µg/L) | TPHd (µg/L) | TPHmo (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | TBA (µg/L) | ETBE (µg/L) | DIPE (µg/L) | TAME (µg/L) | Other Analytes (ng/L) | |
|------------------|------------------------------------|---|-----------------------|-------------|-------------|--------------|----------------|----------------|---------------------|----------------------|-------------|------------|-------------|-------------|-------------|-----------------------|-------------|
| MW7 8/4/2000 | 59.80 | Screened Interval = 10-15 feet bgs | 53.63 | 6.17 | --- | --- | --- | --- | --- | --- | 0 | --- | --- | --- | --- | --- | |
| 8/7/2000 | 53.60 | 6.20 | 3,700 | 190 | ND<170 | 33 | 2.8 | 2 | 67.4 | 105.2 | 3,000 | 700 | 220 | --- | --- | --- | |
| 9/8/2000 | 52.97 | 6.83 | --- | --- | --- | --- | --- | --- | --- | 0 | --- | --- | --- | --- | --- | --- | |
| 10/12/2000 | 52.35 | 7.45 | --- | --- | --- | --- | --- | --- | --- | 0 | --- | --- | --- | 4.2 | ND<2.5 | --- | |
| 11/3/2000 | 53.50 | 6.30 | 910 | 110 | ND<170 | 2.2 | 1 | 1.2 | 1.9 | 6.3 | 1,200 | 280 | 90 | 4.2 | ND<2.5 | --- | |
| 12/1/2000 | 53.78 | 6.02 | --- | --- | --- | --- | --- | --- | --- | 0 | --- | --- | --- | --- | --- | --- | |
| 1/8/2001 | 54.13 | 5.67 | --- | --- | --- | --- | --- | --- | --- | 0 | --- | --- | --- | --- | --- | --- | |
| 2/6/2001 | 54.39 | 5.41 | 1,700 | 280 | 5.2 | 5 | 5 | 5 | 20.2 | 1,800 | 440 | 160 | ND<10 | ND<10 | ND<10 | --- | |
| 3/1/2/2001 | 54.73 | 5.07 | --- | --- | --- | --- | --- | --- | --- | 0 | --- | --- | --- | --- | --- | --- | |
| 4/20/2001 | 54.61 | 5.19 | --- | --- | --- | --- | --- | --- | --- | 0 | --- | --- | --- | --- | --- | --- | |
| 5/8/2001 | 54.39 | 5.41 | 1,100 | 160 | ND<200 | 6.6 | 5 | 5 | 21.6 | 2,000 | 450 | 200 | ND<5.0 | ND<5.0 | ND<5.0 | --- | |
| 6/8/2001 | 54.17 | 5.63 | --- | --- | --- | --- | --- | --- | --- | 0 | --- | --- | --- | --- | --- | --- | |
| 7/16/2001 | 54.00 | 5.80 | --- | --- | --- | --- | --- | --- | --- | 0 | --- | --- | --- | --- | --- | --- | |
| 8/7/2001 | 53.70 | 6.10 | 1,400 | ND<50 | ND<170 | 8.3 | 5 | 5 | 23.3 | 2,100 | 670 | 180 | ND<10 | ND<10 | ND<10 | --- | |
| 9/17/2001 | 53.39 | 6.41 | --- | --- | --- | --- | --- | --- | --- | 0 | --- | --- | --- | --- | --- | --- | |
| 10/24/2001 | 52.85 | 6.95 | --- | --- | --- | --- | --- | --- | --- | 0 | --- | --- | --- | --- | --- | --- | |
| 11/6/2001 | 52.63 | 7.17 | 1,400 | ND<50 | ND<170 | 1.5 | 1.5 | 1.5 | 1.5 | 6 | 1,800 | 430 | 150 | 4.6 | ND<3.0 | 1,2-BCA=3.3 | |
| 2/5/2/2002 | 55.40 | 4.40 | 1,500 | ND<50 | --- | 31 | 1.5 | 1.5 | 1.5 | 35.5 | 2,000 | 750 | 190 | 7.9 | 3.8 | 1,2-BCA=3.3 | |
| 5/9/2002 | 54.88 | 4.92 | 1,100 | ND<50 | ND<170 | 51 | 2.5 | 2.5 | 2.5 | 58.5 | 1,800 | 280 | 96 | ND<5.0 | ND<5.0 | ND<5.0 | |
| 8/15/2002 | 53.06 | 6.74 | 1,500 | 53 | ND<170 | 4.6 | 1.5 | 1.5 | 2.6 | 10.2 | 1,500 | 290 | 110 | 5.3 | ND<3.0 | ND<3.0 | |
| 12/2/2002 | 55.83 | 3.97 | 750 | ND<50 | ND<170 | 0.64 | 0.5 | 0.5 | 0.57 | 2.21 | 1,200 | 510 | 78 | 3.4 | ND<1.0 | 1,2-BCA=1.3 | |
| 2/11/2003 | 55.32 | 4.48 | 1,400 | ND<50 | ND<170 | 36 | 0.69 | 0.74 | 0.61 | 38.04 | 1,300 | 550 | 78 | ND<8.0 | ND<4.0 | 1,2-BCA=2.8 | |
| 5/13/2003 | 53.78 | 6.02 | 620 | ND<50 | ND<170 | 1.8 | 0.64 | 0.79 | 1.21 | 20.64 | 1,000 | 190 | 64 | 3.4 | 1.9 | 1,2-BCA=2.7 | |
| 8/14/2003 | 52.90 | 6.90 | 830 | 54 | ND<170 | 1.4 | 0.5 | 0.5 | 0.5 | 2.9 | 1,100 | 250 | 85 | 4.0 | 1.1 | 1,2-BCA=1.2 | |
| 11/4/2003 | 52.04 | 7.76 | 570 | ND<50 | ND<170 | 1.4 | 0.5 | 0.5 | 0.5 | 2.9 | 780 | 140 | 48 | 2.7 | ND<1.0 | 1,2-BCA=1.2 | |
| 2/2/2004 | 55.82 | 3.98 | 1,300 | 50 | ND<170 | 7.6 | 0.5 | 0.56 | 0.5 | 9.16 | 1,200 | 240 | 69 | 4.6 | ND<4.5 | 1,2-BCA=2.2 | |
| 5/4/2004 | 54.43 | 5.37 | 800 | ND<50 | ND<170 | 0.5 | 0.5 | 0.5 | 0.5 | 2 | 870 | ND<50 | 67 | 2.8 | ND<1.0 | 1,2-BCA=2.2 | |
| 8/3/2004 | 52.23 | 7.57 | 710 | ND<50 | ND<170 | 0.5 | 0.5 | 0.5 | 0.5 | 2 | 720 | 42 | 48 | 2.4 | ND<1.0 | ND<1.0 | |
| 11/10/2004 | 53.67 | 6.13 | ND<50 | 56 | ND<170 | 0.5 | 0.5 | 0.5 | 0.5 | 2 | 7.0 | ND<10 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | |
| 2/1/2005 | 55.24 | 4.56 | 140 | ND<50 | ND<170 | 0.66 | 0.5 | 0.5 | 2.16 | 2 | 130 | 5.3 | ND<10 | ND<1.0 | ND<1.0 | ND<1.0 | |
| 5/3/2005 | 55.13 | 4.67 | 150 | ND<50 | ND<170 | 0.5 | 0.5 | 0.5 | 0.5 | 2 | 140 | ND<20 | 7.3 | ND<1.0 | ND<1.0 | ND<1.0 | |
| 8/2/2005 | 53.78 | 6.02 | 170 | ND<50 | ND<170 | 0.5 | 0.5 | 0.5 | 0.5 | 2 | 150 | ND<30 | 5.7 | ND<1.0 | ND<1.0 | ND<1.0 | |
| 11/1/2005 | 52.68 | 7.12 | 230 | ND<50 | ND<170 | 0.5 | 0.5 | 0.5 | 0.5 | 2 | 280 | ND<65 | 12 | 1.3 | ND<1.0 | All ND<1.0 | All ND<1.0 |
| 1/31/2006 | 56.18 | 3.62 | 380 | 60 | ND<170 | 0.5 | 0.5 | 0.5 | 0.5 | 2 | 320 | ND<80 | 17 | ND<3.0 | ND<1.0 | 1,2-BCA=1.1 | 1,2-BCA=1.1 |
| 5/21/2006 | 55.63 | 4.17 | 360 | 51 | ND<170 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | 0 | 310 | ND<100 | 16 | ND<2.0 | ND<1.0 | All ND<1.0 | All ND<1.0 |

TABLE 2: MONITORING WELL DATA AND GROUNDWATER ANALYTICAL RESULTS
 Fortuna Shell; 309 Main St., Fortuna, California
 LQF No. 12672; LACO No. 4562-03

Groundwater Measurements

Analytical Results

| MWS | Well Sample Date | Well Head Elevation (feet NAVD 88) | Hydraulic Head Elevation (feet NAVD 88) | Depth to Water (feet) | TPhg (µg/L) | TPhd (µg/L) | TPhmo (µg/L) | Resene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Xylenes (µg/L) | MTBE (µg/L) | TBA (µg/L) | TAME (µg/L) | ETBE (µg/L) | DIPE (µg/L) | Other Analytics (µg/L) |
|-----------------------------------|------------------|------------------------------------|---|-----------------------|-------------|-------------|--------------|---------------|----------------|---------------------|----------------|-------------|------------|-------------|-------------|-------------|------------------------|
| Screened Interval = 5-20 feet bgs | | | | | | | | | | | | | | | | | |
| 59-58 | 8/4/2000 | 52.05 | 7.53 | 7.53 | --- | --- | --- | --- | --- | --- | 0 | 0 | --- | --- | --- | --- | --- |
| | 8/7/2000 | 50.81 | 8.77 | 4,800 | 98 | ND<170 | 10 | 10 | 10 | 10 | 40 | 11,000 | 2,100 | 3,6 | 54 | 42 | 1,2 DCA=42 |
| | 9/8/2000 | 51.60 | 7.98 | --- | --- | --- | --- | --- | --- | 0 | 0 | --- | --- | --- | --- | --- | --- |
| | 10/12/2000 | 51.17 | 8.41 | --- | --- | --- | --- | --- | --- | 0 | 0 | --- | --- | --- | --- | --- | --- |
| | 11/3/2000 | 52.58 | 7.09 | 3,200 | 65 | ND<170 | 4 | 4 | 4 | 4 | 16 | 7,800 | 1,300 | 50 | 56 | ND<10 | |
| | 12/12/2000 | 52.82 | 6.76 | --- | --- | --- | --- | --- | --- | 0 | 0 | --- | --- | --- | --- | --- | --- |
| | 1/8/2001 | 52.77 | 6.81 | --- | --- | --- | --- | --- | --- | 0 | 0 | --- | --- | --- | --- | --- | --- |
| | 2/6/2001 | 53.29 | 6.29 | 5,700 | ND>50 | ND<170 | 10 | 10 | 10 | 10 | 40 | 8,000 | 1,100 | 61 | 47 | ND>20 | |
| | 3/12/2001 | 53.66 | 5.92 | --- | --- | --- | --- | --- | --- | 0 | 0 | --- | --- | --- | --- | --- | --- |
| | 4/20/2001 | 53.26 | 6.32 | --- | --- | --- | --- | --- | --- | 0 | 0 | --- | --- | --- | --- | --- | --- |
| | 5/8/2001 | 52.85 | 6.73 | 4,600 | ND>50 | ND>200 | 6.3 | 6.3 | 6.3 | 6.3 | 25.2 | 6,900 | 620 | 83 | 35 | ND<13 | |
| | 6/8/2001 | 52.70 | 6.88 | --- | --- | --- | --- | --- | --- | 0 | 0 | --- | --- | --- | --- | --- | --- |
| | 7/16/2001 | 52.58 | 7.00 | --- | --- | --- | --- | --- | --- | 0 | 0 | --- | --- | --- | --- | --- | --- |
| | 8/7/2001 | 51.61 | 7.97 | 4,700 | ND>50 | ND>170 | 13 | 13 | 13 | 13 | 52 | 7,600 | ND>250 | 120 | 41 | ND>25 | |
| | 9/17/2001 | 50.80 | 8.78 | --- | --- | --- | --- | --- | --- | 0 | 0 | --- | --- | --- | --- | --- | --- |
| | 10/24/2001 | 50.28 | 9.30 | --- | --- | --- | --- | --- | --- | 0 | 0 | --- | --- | --- | --- | --- | --- |
| | 11/6/2001 | 50.68 | 8.90 | 4,800 | ND>50 | ND<170 | 10 | 10 | 10 | 10 | 40 | 7,000 | 920 | 98 | 37 | ND>20 | |
| | 2/5/2002 | 53.62 | 5.96 | 2,600 | ND>50 | --- | 5 | 5 | 5 | 5 | 5 | 20 | 6,200 | 860 | 170 | 37 | ND>10 |
| | 5/9/2002 | 53.05 | 6.53 | 2,800 | ND>50 | ND<170 | 5 | 5 | 5 | 5 | 5 | 20 | 6,500 | 850 | 130 | 24 | ND>10 |
| | 8/15/2002 | 52.25 | 7.33 | 4,400 | ND>50 | ND<170 | 5 | 5 | 5 | 5 | 5 | 20 | 5,600 | 820 | 160 | 33 | ND>10 |
| | 12/20/2002 | 53.52 | 6.06 | 3,100 | ND>50 | ND<170 | 0.63 | 0.5 | 0.5 | 0.62 | 2.25 | 5,700 | ND>6000 | 160 | 31 | 4 | 1,2-DCA=3.0 |
| | 2/11/2003 | 54.41 | 5.17 | 4,500 | ND>50 | ND>170 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 2 | 6,200 | 1,800 | 110 | 40 | 1,2-DCA=3.7 |
| | 5/13/2003 | 53.56 | 6.02 | 950 | ND>50 | ND>170 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 2 | 4,500 | 1,100 | 140 | 20.0 | 1,2-DCA=3.0 |
| | 8/14/2003 | 50.53 | 9.05 | 1,300 | ND>50 | ND<170 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 2 | 4,600 | 1,100 | 150 | 24.0 | 1,2-DCA=2.2 |
| | 11/4/2003 | 50.70 | 8.88 | 1,500 | ND>50 | ND<170 | 1.5 | 0.5 | 0.5 | 0.51 | 0.5 | 3.01 | 4,700 | 1,100 | 130 | 21 | 1,2-DCA=2.3 |
| | 2/22/2004 | 53.82 | 5.76 | 4,200 | ND>50 | ND<170 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 2 | 4,700 | 1,000 | 150 | 31 | 1,2-DCA=3.0 |
| | 5/4/2004 | 52.56 | 7.02 | 2,900 | ND>50 | ND<170 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 2 | 4,300 | 1,100 | 140 | 31 | |
| | 8/3/2004 | 49.60 | 9.98 | 3,000 | ND>50 | ND<170 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 2 | 4,100 | 920 | 110 | 17 | 2.7 |
| | 11/10/2004 | 49.26 | 10.32 | 3,100 | ND>50 | ND<170 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 2 | 3,500 | 810 | 110 | 14 | ND<4.0 |
| | 2/1/2005 | 49.74 | 9.84 | 2,600 | ND>50 | ND<170 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 2 | 3,500 | 640 | 130 | 14 | ND<4.0 |
| | 5/3/2005 | 49.24 | 10.34 | 1,900 | ND>50 | ND<170 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 2 | 3,300 | 890 | ND>200 | 12 | 1,2-DCA=2.9 |
| | 8/2/2005 | 48.40 | 11.18 | 1,800 | ND>50 | ND<170 | 0.88 | 0.5 | 0.5 | 0.5 | 0.5 | 2 | 2,500 | 450 | 97 | 9.1 | 1,2-DCA=1.8 |
| | 11/1/2005 | 50.93 | 8.65 | 1,200 | ND>50 | ND<170 | 1.3 | 0.5 | 0.5 | 0.5 | 0.5 | 2 | 3,000 | 420 | 80 | 9.8 | 1,2-DCA=1.9 |
| | 1/31/2006 | 50.00 | 9.58 | 1,900 | ND>50 | ND<170 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 2 | 2,300 | 330 | 84 | 8.8 | ND<4.0 |
| | 5/2/2006 | 49.10 | 10.48 | 1,700 | ND>50 | ND<170 | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | 0 | 2,100 | 440 | 81 | 8.3 | ND<4.0 | |

All Others = ND<1.0

TABLE 2: MONITORING WELL DATA AND GROUNDWATER ANALYTICAL RESULTS
 Fortuna Shell; 809 Main St., Fortuna, California
 LOP No. 12672; LACO No. 4563.03

Groundwater Measurements

Analytical Results

| WELL Sample | Well Head Elevation (feet NAVD 88) | Hydraulic Head Elevation (feet NAVD 88) | Depth to Water (feet) | TPHg (µg/L) | TPHd (µg/L) | TPHmo (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) | MTBE (µg/L) | TAME (µg/L) | ETBE (µg/L) | DIPE (µg/L) | Other Analytes (µg/L) | |
|-------------|------------------------------------|---|-----------------------|-------------|-------------|--------------|----------------|----------------|---------------------|----------------------|-------------|-------------|-------------|-------------|-----------------------|--------|
| MW9 | | | | | | | | | | | | | | | | |
| 11/6/2001 | 59.35 | Screened Interval = 12.5 feet DE5 | 13.01 | 160 | ND<50 | ND<170 | 0.5 | 0.5 | 0.5 | 0.5 | 2 | 210 | ND<5.0 | 17 | ND<1.0 | |
| 2/5/2002 | 52.11 | 7.24 | 92 | ND<50 | ND<50 | ND<170 | 0.5 | 0.5 | 0.5 | 0.5 | 2 | 210 | ND<5.0 | 20 | ND<1.0 | |
| 5/9/2002 | 49.62 | 9.73 | 88 | ND<50 | ND<50 | ND<170 | 0.5 | 0.5 | 0.5 | 0.5 | 2 | 180 | ND<5.0 | 13 | ND<1.0 | |
| 8/15/2002 | 49.90 | 9.45 | 100 | ND<50 | ND<50 | ND<170 | 0.5 | 0.5 | 0.69 | 1.8 | 3.49 | 81 | ND<5.0 | 7.1 | ND<1.0 | |
| 12/7/2002 | 51.46 | 7.89 | ND<50 | --- | --- | --- | 0.5 | 0.5 | 0.5 | 0.53 | 2.03 | 30 | ND<20 | 1.8 | ND<1.0 | |
| 2/11/2003 | 53.66 | 5.69 | 51 | ND<50 | ND<50 | ND<170 | 0.5 | 0.5 | 0.5 | 0.5 | 2 | 29 | ND<20 | 1.8 | ND<1.0 | |
| 5/13/2003 | 52.43 | 6.92 | ND<50 | ND<50 | ND<170 | 0.5 | 0.5 | 0.5 | 0.5 | 2 | 10 | ND<20 | ND<1.0 | ND<1.0 | ND<1.0 | |
| 8/14/2003 | 49.68 | 9.67 | ND<50 | ND<50 | ND<170 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 2 | 12 | ND<20 | 1.1 | ND<1.0 | |
| 11/4/2003 | 49.12 | 10.23 | ND<50 | ND<50 | ND<170 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 2 | 21 | ND<20 | 1.5 | ND<1.0 | |
| 2/2/2004 | 52.79 | 6.56 | ND<50 | ND<50 | ND<170 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 2 | 10 | ND<10 | ND<1.0 | ND<1.0 | |
| 5/4/2004 | 51.06 | 8.29 | 76 | ND<50 | ND<50 | ND<170 | 0.5 | 0.5 | 0.5 | 0.5 | 2 | 7.8 | ND<10 | ND<1.0 | ND<1.0 | |
| 8/3/2004 | 49.48 | 9.87 | 65 | ND<50 | ND<50 | ND<170 | 0.5 | 0.5 | 0.5 | 0.5 | 2 | 5.1 | ND<10 | ND<1.0 | ND<1.0 | |
| 11/1/2004 | 50.28 | 9.07 | ND<50 | ND<50 | ND<170 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 2 | 6.8 | ND<10 | ND<1.0 | ND<1.0 | |
| 2/1/2005 | 51.69 | 7.66 | ND<50 | ND<50 | ND<170 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 2 | 4.3 | ND<10 | ND<1.0 | ND<1.0 | |
| 5/3/2005 | 51.29 | 8.06 | ND<50 | ND<50 | ND<170 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 2 | 4.1 | ND<10 | ND<1.0 | ND<1.0 | |
| 8/2/2005 | 50.11 | 9.24 | ND<50 | --- | --- | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 2 | 2.7 | ND<10 | ND<1.0 | ND<1.0 | |
| 11/1/2005 | 49.14 | 10.21 | ND<50 | --- | --- | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 2 | 5.8 | ND<10 | ND<1.0 | ND<1.0 | |
| 1/31/2006 | 52.37 | 6.98 | ND<50 | --- | --- | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 2 | 5.0 | ND<10 | ND<1.0 | ND<1.0 | |
| 5/2/2006 | 51.62 | 7.73 | ND<50 | --- | --- | ND<50 | ND<50 | ND<50 | ND<50 | ND<50 | 0 | 4.6 | ND<10 | ND<1.0 | ND<1.0 | |
| MW10 | | | | | | | | | | | | | | | | |
| 11/6/2001 | 59.19 | Screened Interval = 12.5-15.5 feet bgs | 10.55 | 61 | ND<50 | ND<170 | 0.5 | 0.5 | 0.5 | 0.5 | 2 | 82 | 17 | 2.9 | ND<1.0 | |
| 2/5/2002 | 52.12 | 7.07 | 55 | ND<50 | ND<50 | ND<170 | 0.5 | 0.5 | 0.5 | 0.5 | 2 | 47 | 11 | ND<1.0 | ND<1.0 | |
| 5/9/2002 | 51.17 | 8.02 | 8.07 | ND<50 | ND<50 | ND<170 | 0.5 | 0.5 | 0.5 | 0.5 | 2 | 34 | ND<5.0 | ND<1.0 | ND<1.0 | |
| 8/15/2002 | 48.04 | 11.15 | 87 | ND<50 | ND<50 | ND<170 | 0.5 | 0.5 | 1.3 | 3.4 | 5.7 | 41 | ND<5.0 | ND<1.0 | ND<1.0 | |
| 12/7/2002 | 51.68 | 7.51 | 53 | ND<50 | ND<50 | ND<170 | 0.5 | 0.5 | 2.800 | 0.5 | 0.5 | 2 | 63 | ND<20 | 2.2 | ND<1.0 |
| 2/11/2003 | 45.71 | 13.48 | 190 | ND<50 | ND<50 | ND<170 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 2 | 44 | ND<20 | 1.4 | ND<1.0 |
| 5/13/2003 | 48.49 | 10.70 | ND<50 | ND<50 | ND<170 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 2 | 15 | ND<20 | ND<1.0 | ND<1.0 | |
| 8/14/2003 | 47.55 | 11.64 | ND<50 | ND<50 | ND<170 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 2 | 38 | ND<20 | 1.9 | ND<1.0 | |
| 11/1/2003 | 46.54 | 12.65 | ND<50 | ND<50 | ND<170 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 2 | 45 | ND<20 | 2.3 | ND<1.0 | |
| 2/1/2004 | 48.11 | 11.08 | 86 | ND<50 | ND<50 | ND<170 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 2 | 52 | ND<20 | 2.5 | ND<1.0 |
| 5/4/2004 | 47.69 | 11.50 | 45.71 | ND<50 | ND<50 | ND<170 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 2 | 15 | ND<10 | ND<1.0 | ND<1.0 |
| 8/3/2004 | 46.27 | 12.92 | ND<50 | ND<50 | ND<170 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 2 | 17 | ND<10 | ND<1.0 | ND<1.0 | |
| 11/1/2004 | 46.58 | 12.61 | ND<50 | ND<50 | ND<170 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 2 | 28 | ND<10 | 1.4 | ND<1.0 | |
| 2/1/2005 | 50.36 | 8.83 | ND<50 | ND<50 | ND<170 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 2 | 11 | ND<10 | ND<1.0 | ND<1.0 | |
| 5/3/2005 | 49.79 | 9.40 | 48.11 | ND<50 | ND<50 | ND<170 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 2 | 9 | ND<10 | ND<1.0 | ND<1.0 |
| 8/2/2005 | 49.01 | 10.18 | 47.69 | --- | --- | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 2 | ND<1.0 | ND<10 | ND<1.0 | ND<1.0 | |
| 11/1/2005 | 49.35 | 9.84 | 99 | ND<50 | ND<50 | ND<170 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 2 | 4.1 | ND<10 | ND<1.0 | ND<1.0 |
| 1/31/2006 | 51.72 | 7.47 | ND<50 | --- | --- | ND<50 | ND<50 | ND<50 | ND<50 | ND<50 | 0 | 2.45 | 5.4 | ND<10 | ND<1.0 | |
| 5/2/2006 | 52.92 | 6.27 | ND<50 | --- | --- | ND<50 | ND<50 | ND<50 | ND<50 | ND<50 | 0 | 5.0 | ND<10 | ND<1.0 | ND<1.0 | |

TABLE 2: MONITORING WELL DATA AND GROUNDWATER ANALYTICAL RESULTS
 Fortuna Shell; 809 Main St., Fortuna, California
 LOP No. 12672; LACO No. 4563/03

Groundwater Measurements

Analytical Results

| WELL Sample Date | Well Head Elevation (feet NAVD 88) | Hydraulic Head Elevation (feet NAVD 88) | Depth to Water (feet) | TPHg (µg/L) | TPHd (µg/L) | TPHmo (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) | BTEx sum (µg/L) | MTBE (µg/L) | TAME (µg/L) | EBE (µg/L) | DPE (µg/L) | Other Analytes (µg/L) | |
|------------------|------------------------------------|---|-----------------------|-------------|-------------|--------------|----------------|----------------|---------------------|----------------------|-----------------|-------------|-------------|------------|------------|-----------------------|-----|
| MW11 | | | | | | | | | | | | | | | | | |
| 11/6/2003 | 59.21 | Screened Interval = 12.5-15.5 feet bgs | 47.85 | 11.36 | ND<50 | ND<50 | 0.5 | 0.5 | 0.5 | 0.5 | 2 | 10 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | |
| 2/5/2002 | 50.97 | 8.24 | 50.45 | 8.76 | ND<50 | ND<50 | 0.5 | 0.5 | 0.5 | 0.5 | 2 | 6.3 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | |
| 5/9/2002 | 50.45 | 11.21 | 48.00 | 11.21 | ND<50 | ND<50 | 0.5 | 0.5 | 0.5 | 0.5 | 2 | 1.1 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | |
| 8/15/2002 | 51.92 | 7.29 | 50.79 | 7.29 | ND<50 | ND<50 | 0.5 | 0.5 | 0.5 | 0.5 | 2 | 2.72 | 0.9 | ND<5.0 | ND<1.0 | ND<1.0 | |
| 12/20/2002 | 50.79 | 8.42 | 50.23 | ND<50 | ND<50 | ND<50 | 0.5 | 0.5 | 0.5 | 0.5 | 2 | 1.4 | ND<20 | ND<1.0 | ND<1.0 | ND<1.0 | |
| 2/11/2003 | 51.24 | 7.97 | 51.24 | 7.97 | ND<50 | ND<50 | 0.5 | 0.5 | 0.5 | 0.5 | 2 | 2.8 | ND<20 | ND<1.0 | ND<1.0 | ND<1.0 | |
| 5/13/2003 | 48.11 | 11.10 | 48.11 | 11.10 | ND<50 | ND<50 | ND<50 | ND<50 | ND<50 | ND<50 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | |
| 8/14/2003 | 45.99 | 13.22 | 51.18 | 8.03 | ND<50 | ND<50 | 0.5 | 0.5 | 0.5 | 0.5 | 2 | 2.1 | ND<20 | ND<1.0 | ND<1.0 | ND<1.0 | |
| 11/4/2003 | 50.04 | 9.17 | 47.41 | 11.80 | ND<50 | ND<50 | ND<50 | ND<50 | ND<50 | ND<50 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | |
| 2/2/2004 | 50.04 | 9.17 | 47.41 | 11.80 | ND<50 | ND<50 | ND<50 | ND<50 | ND<50 | ND<50 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | |
| 5/4/2004 | 49.59 | 9.62 | 50.38 | 8.83 | ND<50 | ND<50 | ND<50 | ND<50 | ND<50 | ND<50 | ND<50 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | |
| 8/3/2004 | 49.76 | 9.45 | 48.76 | 10.45 | ND<50 | ND<50 | ND<50 | ND<50 | ND<50 | ND<50 | ND<50 | ND<10 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | |
| 11/1/2004 | 47.51 | 11.70 | 51.12 | 8.09 | ND<50 | ND<50 | ND<50 | ND<50 | ND<50 | ND<50 | ND<50 | ND<10 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | |
| 1/31/2006 | 49.97 | 9.24 | 5/2/2006 | 49.97 | ND<50 | ND<50 | ND<50 | ND<50 | ND<50 | ND<50 | ND<50 | ND<10 | ND<1.0 | ND<1.0 | ND<1.0 | ND<1.0 | |
| MW12 | | | | | | | | | | | | | | | | | |
| 11/6/2001 | 59.09 | Screened Interval = 12.5-15 feet bgs | 48.05 | 11.04 | 1,700 | ND<50 | ND<170 | 2.5 | 2.5 | 2.5 | 2.5 | 10 | 2,400 | 250 | 51 | 11 | |
| 2/5/2002 | Well was inaccessible | 80.67 | 8.42 | 1,300 | ND<50 | ND<170 | 2.5 | 2.5 | 2.5 | 2.5 | 2 | --- | 0 | --- | --- | ND<1.0 | |
| 5/9/2002 | 80.67 | 10.12 | 48.97 | 1,800 | ND<50 | ND<170 | 2.5 | 2.5 | 2.5 | 2.5 | 10 | 2,900 | 110 | 75 | 6.3 | ND<5.0 | |
| 8/15/2002 | 52.42 | 6.67 | 1,800 | ND<50 | ND<170 | 0.5 | 0.5 | 0.5 | 0.5 | 2 | 2,300 | 96 | 92 | 9.4 | 9.0 | 3.3 | |
| 12/20/2002 | Well was inaccessible | --- | --- | --- | --- | --- | --- | --- | --- | --- | 2 | 2,600 | 430 | 94 | 9.0 | --- | --- |
| 2/11/2003 | 51.41 | 7.68 | 47.0 | ND<50 | ND<170 | 0.5 | 0.5 | 0.5 | 0.5 | 0 | --- | --- | --- | --- | --- | --- | |
| 5/13/2003 | 48.71 | 10.38 | 740 | ND<50 | ND<170 | 0.5 | 0.5 | 0.5 | 0.5 | 2 | 1,400 | 94 | 72 | 5.0 | 1.7 | 1.7 | |
| 8/14/2003 | 48.20 | 10.89 | 840 | ND<50 | ND<170 | 0.5 | 0.5 | 0.5 | 0.5 | 2 | 1,600 | 76 | 82 | 6.6 | 2.3 | 2.3 | |
| 11/4/2003 | 51.69 | 7.40 | 1,500 | ND<50 | ND<170 | 0.5 | 0.5 | 0.5 | 0.5 | 2 | 1,600 | ND<50 | 68 | 4.7 | 1.9 | 1.9 | |
| 2/2/2004 | 50.28 | 8.81 | 1,200 | ND<50 | ND<170 | 0.5 | 0.5 | 0.5 | 0.5 | 2 | 1,700 | ND<60 | 72 | 5.6 | 2.3 | 2.3 | |
| 5/4/2004 | 48.34 | 10.75 | 2,100 | 76 | ND<170 | 0.5 | 0.5 | 0.5 | 0.5 | 2 | 1,400 | ND<45 | 69 | 4.5 | 1.8 | 1.8 | |
| 8/3/2004 | 49.78 | 9.31 | 1,200 | ND<50 | ND<170 | 0.5 | 0.5 | 0.5 | 0.5 | 2 | 1,300 | 110 | 96 | 9.5 | 2.7 | 2.7 | |
| 11/10/2004 | 50.58 | 8.51 | 990 | ND<50 | ND<170 | 0.5 | 0.5 | 0.5 | 0.5 | 2 | 1,200 | 45 | 47 | 3.4 | 1.6 | 1.6 | |
| 2/1/2005 | 49.98 | 9.11 | 640 | ND<50 | ND<170 | 0.5 | 0.5 | 0.5 | 0.5 | 2 | 950 | 56 | 40 | 3.4 | 1.5 | 1.5 | |
| 5/3/2005 | 49.07 | 10.02 | 750 | --- | --- | 0.5 | 0.5 | 0.5 | 0.5 | 2 | 720 | ND<15 | 34 | 3.2 | 1.6 | 1.6 | |
| 8/2/2005 | 48.06 | 11.03 | 340 | --- | --- | 0.5 | 0.5 | 0.5 | 0.5 | 2 | 790 | ND<10 | 32 | 2.6 | 1.3 | 1.3 | |
| 11/1/2005 | 51.01 | 8.08 | 660 | --- | --- | 0.5 | 0.5 | 0.5 | 0.5 | 2 | 580 | ND<10 | 21 | 1.8 | 1.1 | All ND<1.0 | |
| 1/31/2006 | 50.08 | 9.01 | 670 | --- | --- | ND<50 | ND<50 | ND<50 | ND<50 | ND<50 | ND<10 | 630 | 27 | ND<4.0 | 1.2 | All ND<1.0 | |
| 5/2/2006 | 50.08 | 9.01 | --- | --- | --- | ND<50 | ND<50 | ND<50 | ND<50 | ND<50 | ND<10 | 620 | 25 | ND<4.0 | ND<2.0 | All ND<1.0 | |

TABLE 2: MONITORING WELL DATA AND GROUNDWATER ANALYTICAL RESULTS
FORTUNA SHELL; 809 MAIN St., FORTUNA, CALIFORNIA
LTP No. 12672; LACO No. 4563 03

| Analytical Results | | | | | | | | | | | | |
|--|------------------------------------|---|-----------------------|--------------------------|-------------|--------------|----------------|----------------|---------------------|----------------------|-----------------|-----------------------|
| WELL Sample Date | Well Head Elevation (feet NAVD 88) | Hydraulic Head Elevation (feet NAVD 88) | Depth to Water (feet) | Groundwater Measurements | | | | | | | | Other Analytes (µg/L) |
| | | | | TPHg (µg/L) | TPHd (µg/L) | TPHmo (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) | BTEX sum (µg/L) | |
| MW13 11/6/2001 | 58.86 | Screened Interval = 12.5-15 feet bgs | 48.82 | 10.04 | 2,000 | ND<50 | ND<170 | 2.5 | 2.5 | 10 | 2,800 | 330 |
| 2/5/2002 5/9/2002 | 51.58 | 7.28 | 1,300 | ND>50 | 1.5 | 1.5 | 1.5 | 1.5 | 6 | 2,800 | 370 | 11.0 |
| 8/15/2002 12/20/2002 | 51.01 | 7.85 | 1,000 | ND>50 | ND<170 | 1 | 1 | 1 | 0 | ... | ... | 5.7 |
| 2/11/2003 5/13/2003 | 53.68 | 5.18 | ND>50 | 54 | 570 | 0.5 | 0.5 | 0.5 | 2.5 | 38 | ND>20 | 1.8 |
| 8/14/2003 11/4/2003 | 52.06 | 6.80 | ND>50 | ND>50 | ND<170 | 0.5 | 0.5 | 0.5 | 0 | ... | ... | ... |
| 2/22/2004 5/4/2004 | 49.48 | 9.38 | 160 | ND>50 | ND<170 | 0.5 | 0.5 | 0.5 | 2 | 21 | ND>20 | 1.9 |
| 8/3/2004 11/10/2004 | 49.12 | 9.74 | 170 | ND>50 | ND<170 | 0.5 | 0.5 | 0.5 | 2 | 260 | ND>20 | 13 |
| 2/1/2005 5/3/2005 | 52.09 | 6.77 | 330 | ND>50 | ND<170 | 0.5 | 0.5 | 0.5 | 2 | 210 | ND>20 | 13 |
| 8/2/2005 11/1/2005 | 50.89 | 7.97 | 270 | ND>50 | ND<170 | 0.5 | 0.5 | 0.5 | 2 | 360 | ND>20 | 13 |
| 1/31/2006 5/2/2006 | 49.13 | 9.73 | 960 | ND>50 | ND<170 | 0.5 | 0.5 | 0.5 | 2 | 280 | ND<10 | 12 |
| 2/1/2006 5/3/2006 | 50.52 | 8.34 | 400 | ND>50 | ND<170 | 0.5 | 0.5 | 0.5 | 2 | 820 | ND>100 | 34 |
| 5/2/2006 1/31/2006 | 51.10 | 7.76 | 270 | ND>50 | ND<170 | 0.5 | 0.5 | 0.5 | 2 | 370 | ND>25 | 16 |
| 2/1/2006 5/3/2006 | 50.60 | 8.26 | 63 | ND>50 | ND<170 | 0.5 | 0.5 | 0.5 | 2 | 260 | ND>40 | 9.5 |
| 8/2/2006 11/1/2005 | 49.85 | 9.01 | 200 | --- | --- | 0.5 | 0.5 | 0.5 | 2 | 63 | ND<10 | 1.7 |
| 1/31/2006 5/2/2006 | 48.92 | 9.94 | 250 | --- | --- | 0.5 | 0.5 | 0.5 | 2 | 230 | ND<10 | 7.1 |
| Well was inaccessible Well was inaccessible | | | | | | | | | 2 | 390 | ND<10 | 14 |
| MW14 11/10/2004 | 61.04 | Screened Interval = 5-10 feet bgs | 53.89 | 7.15 | 1,100 | 150 | ND<170 | 0.62 | 0.5 | 0.5 | 2.82 | ND>30 |
| 2/1/2005 5/3/2005 | 55.76 | 5.28 | 580 | 120 | ND<170 | 0.77 | 0.5 | 0.65 | 0.5 | 2.42 | ND<15 | 1.7 |
| 5/3/2005 8/2/2005 | 55.70 | 5.34 | 1,000 | 140 | ND<170 | 1.3 | 0.55 | 1.3 | 0.59 | 3.74 | ND<10 | ND<1.0 |
| 11/1/2005 1/31/2006 | 54.37 | 6.67 | 880 | 160 | ND<170 | 0.93 | 0.5 | 1.1 | 0.5 | 3.03 | ND<14 | ND<1.0 |
| 1/31/2006 5/2/2006 | 53.57 | 7.47 | 920 | 92 | ND<190 | 0.88 | 0.5 | 1.3 | 0.5 | 3.18 | ND<10 | ND<1.0 |
| 5/2/2006 1/31/2006 | 56.61 | 4.43 | 300 | 66 | ND<170 | 0.73 | 0.5 | 0.5 | 0.5 | 2.23 | ND<10 | ND<1.0 |
| 5/2/2006 1/31/2006 | 56.33 | 4.71 | 210 | 100 | ND<170 | 0.73 | ND<0.50 | ND<0.50 | 0.73 | 2.1 | ND<10 | ND<1.0 |
| MW15 11/10/2004 | 60.80 | Screened Interval = 5-10 feet bgs | 54.37 | 6.43 | 1,600 | 90 | ND<170 | 97 | 2.7 | 15 | 6.3 | 121 |
| 2/1/2005 5/3/2005 | 56.34 | 4.46 | 1,100 | 120 | ND<170 | 40 | 1.4 | 8.9 | 3.4 | 53.7 | ND<30 | |
| 5/3/2005 8/2/2005 | 55.84 | 4.96 | 2,200 | 170 | ND<170 | 75 | 2.4 | 15 | 5.74 | 98.14 | ND<70 | |
| 8/2/2005 11/1/2005 | 54.52 | 6.28 | 2,100 | 250 | ND<170 | 120 | 3.5 | 23 | 7.5 | 154 | ND<100 | |
| 11/1/2005 1/31/2006 | 53.15 | 7.65 | 2,500 | 99 | ND<210 | 180 | 4.4 | 35 | 12 | 231.4 | ND<20 | |
| 1/31/2006 5/2/2006 | 56.32 | 4.48 | 1,600 | 110 | ND<170 | 110 | 2.9 | 19 | 5.3 | 137.2 | ND<100 | |
| 5/2/2006 1/31/2006 | 56.24 | 4.56 | 1,600 | 79 | 200 | 79 | 2.2 | 11 | 3.8 | 96 | ND<30 | |
| MW16 11/10/2004 | 60.24 | Screened Interval = 5-10 feet bgs | 54.45 | 5.79 | 3,900 | 200 | ND<170 | 480 | 13 | 22 | 31.9 | 546.9 |
| 2/1/2005 5/3/2005 | 55.75 | 4.49 | 5,600 | 340 | ND<170 | 580 | 16 | 31 | 40.8 | 667.8 | ND>90 | |
| 5/3/2005 8/2/2005 | 55.69 | 4.55 | 7,900 | 370 | ND<170 | 580 | 15 | 35 | 33.7 | 663.7 | ND<1.0 | |
| 8/2/2005 11/1/2005 | 54.12 | 6.12 | 4,600 | 570 | ND<170 | 320 | 14 | 22 | 33.6 | 749.6 | ND<1.0 | |
| 11/1/2005 1/31/2006 | 53.21 | 7.03 | 6,100 | 860 | 1,800 | 1,000 | 16 | 27 | 36 | 1,079 | ND<1.0 | |
| 1/31/2006 5/2/2006 | 56.61 | 3.63 | 5,800 | 250 | ND<170 | 600 | 22 | 35 | 53.6 | 790.6 | All ND<1.0 | |
| 5/2/2006 1/31/2006 | 56.18 | 4.06 | 6,600 | 300 | ND<170 | 790 | 21 | 22 | 51.3 | 884.3 | All ND<1.0 | |

TABLE 2: MONITORING WELL DATA AND GROUNDWATER ANALYTICAL RESULTS
 Fortuna Shell; 809 Main St., Fortuna, California
 LOP No. 12672; LACO No. 4563.03

Groundwater Measurements

Analytical Results

| WELL Sample Date | Well Head Elevation (feet NAVD 88) | Hydraulic Head Elevation (feet) | Depth to Water (feet) | TPHg ($\mu\text{g/L}$) | TPHd ($\mu\text{g/L}$) | TPhmo ($\mu\text{g/L}$) | Benzene ($\mu\text{g/L}$) | Toluene ($\mu\text{g/L}$) | Ethylbenzene ($\mu\text{g/L}$) | Total Xylenes ($\mu\text{g/L}$) | BTEx sum ($\mu\text{g/L}$) | MTBE ($\mu\text{g/L}$) | TBA ($\mu\text{g/L}$) | ETBE ($\mu\text{g/L}$) | DIPE ($\mu\text{g/L}$) | Other Analytics ($\mu\text{g/L}$) |
|------------------|------------------------------------|--|-----------------------|--------------------------|--------------------------|---------------------------|-----------------------------|-----------------------------|----------------------------------|-----------------------------------|------------------------------|--------------------------|-------------------------|--------------------------|--------------------------|-------------------------------------|
| MW17S | | | | | | | | | | | | | | | | |
| 11/1/2004 | 56.96 | Screened Interval = 22.5-24.5 feet bgs | 35.70 | 21.26 | 64 | --- | 0.5 | 0.5 | 0.5 | 0.5 | 2 | 33 | ND<35 | ND<1.0 | ND<1.0 | ND<1.0 |
| 2/1/2005 | | | 34.71 | 22.25 | 180 | 70 | ND<170 | 0.5 | 0.5 | 0.5 | 2 | 180 | ND<50 | ND<1.0 | ND<1.0 | 1.2 |
| 5/3/2005 | | | 35.13 | 21.83 | 320 | ND<50 | ND<170 | 0.5 | 0.5 | 0.5 | 2 | 300 | ND<15 | 2.1 | 1.7 | 1.8 |
| 8/2/2005 | | | 34.51 | 22.45 | ND<50 | --- | 0.5 | 0.5 | 0.5 | 0.5 | 2 | 13 | ND<10 | ND<1.0 | ND<1.0 | 1,2-DCA=1.1 |
| 11/1/2005 | | | 34.76 | 22.20 | ND<50 | --- | 0.5 | 0.5 | 0.5 | 0.5 | 2 | 4.1 | ND<10 | ND<1.0 | ND<1.0 | All ND<1.0-3.0 |
| 1/31/2006 | | | 36.74 | 20.22 | 61 | --- | 0.5 | 0.5 | 0.5 | 0.5 | 2 | 3.9 | ND<10 | ND<1.0 | ND<3.0 | 1,2-DCA=1.0 |
| 5/2/2006 | | | 34.18 | 22.78 | 410 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | 0 | 340 | 77 | 2.8 | ND<4.0 | All ND<1.0 |
| MW17D | | | | | | | | | | | | | | | | |
| 11/1/2004 | 56.95 | Screened Interval = 26-28 feet bgs | 32.42 | 24.53 | ND<50 | ND<170 | 0.5 | 0.5 | 0.5 | 0.5 | 2 | 5.0 | ND<20 | ND<1.0 | ND<1.0 | ND<1.0 |
| 2/1/2005 | | | 32.76 | 24.19 | 120 | ND<50 | ND<170 | 0.5 | 0.5 | 0.5 | 2 | 110 | 55 | ND<1.0 | ND<1.0 | 2.0 |
| 5/3/2005 | | | 31.95 | 25.00 | 130 | ND<50 | ND<170 | 0.5 | 0.5 | 0.5 | 2 | 100 | ND<20 | ND<1.0 | ND<1.0 | 2.0 |
| 8/2/2005 | | | 30.50 | 26.45 | 130 | --- | 0.5 | 0.5 | 0.5 | 0.5 | 2 | 50 | ND<10 | ND<1.0 | ND<1.0 | 1,2-DCA=1.1 |
| 11/1/2005 | | | 30.69 | 26.26 | 92 | --- | 0.5 | 0.5 | 0.5 | 0.5 | 2 | 64 | ND<35 | ND<1.0 | ND<1.0 | All ND<1.0-3.0 |
| 1/31/2006 | | | 31.43 | 25.52 | ND<50 | --- | 0.5 | 0.5 | 0.5 | 0.5 | 2 | 12 | ND<35 | ND<1.0 | ND<1.0 | All ND<1.0 |
| 5/2/2006 | | | 31.42 | 25.53 | 80 | --- | ND<0.50 | ND<0.50 | ND<0.50 | ND<0.50 | 0 | 7.0 | ND<10 | ND<1.0 | ND<1.0 | All ND<1.0 |

NOTES:

Bold results indicate analyte detection

--- sample not analyzed for parameter

ND>50 - non-detect at reporting limits shown

Total Xylenes = sum of m,p-xylene and o-xylene

Other Analytics include: 1,2-dichloroethane (1,2-DCA); 1,2-dichlorobenzene; 1,4-dichlorobenzene; Ethylene dibromide (EDB); Methanol; Ethanol

CHART 1: TPH_g CONCENTRATIONS VS. CUMULATIVE DAYS IN MONITORING WELL MW1
 Fortuna Shell; 809 Main St., Fortuna, California
 LOP No. 12672; LACO No. 4563.03

TPH_g Rebound in Monitoring Well MW1

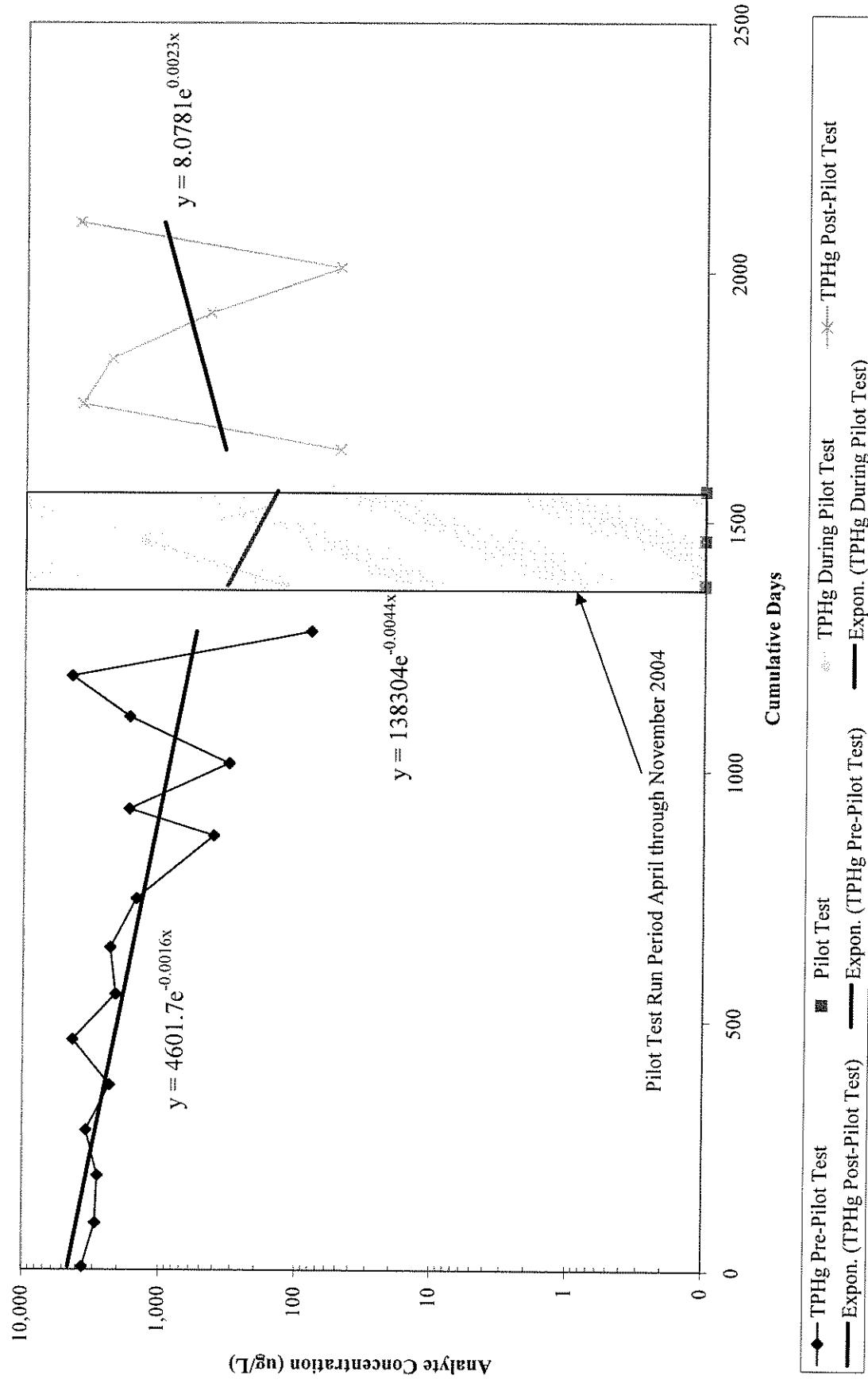


CHART 2: TPH_g CONCENTRATIONS VS. CUMULATIVE DAYS IN MONITORING WELL MW4
 Fortuna Shell; 809 Main St., Fortuna, California
 LOP No. 12672; LACO No. 4563.03

TPH_g Rebound in Monitoring Well MW4

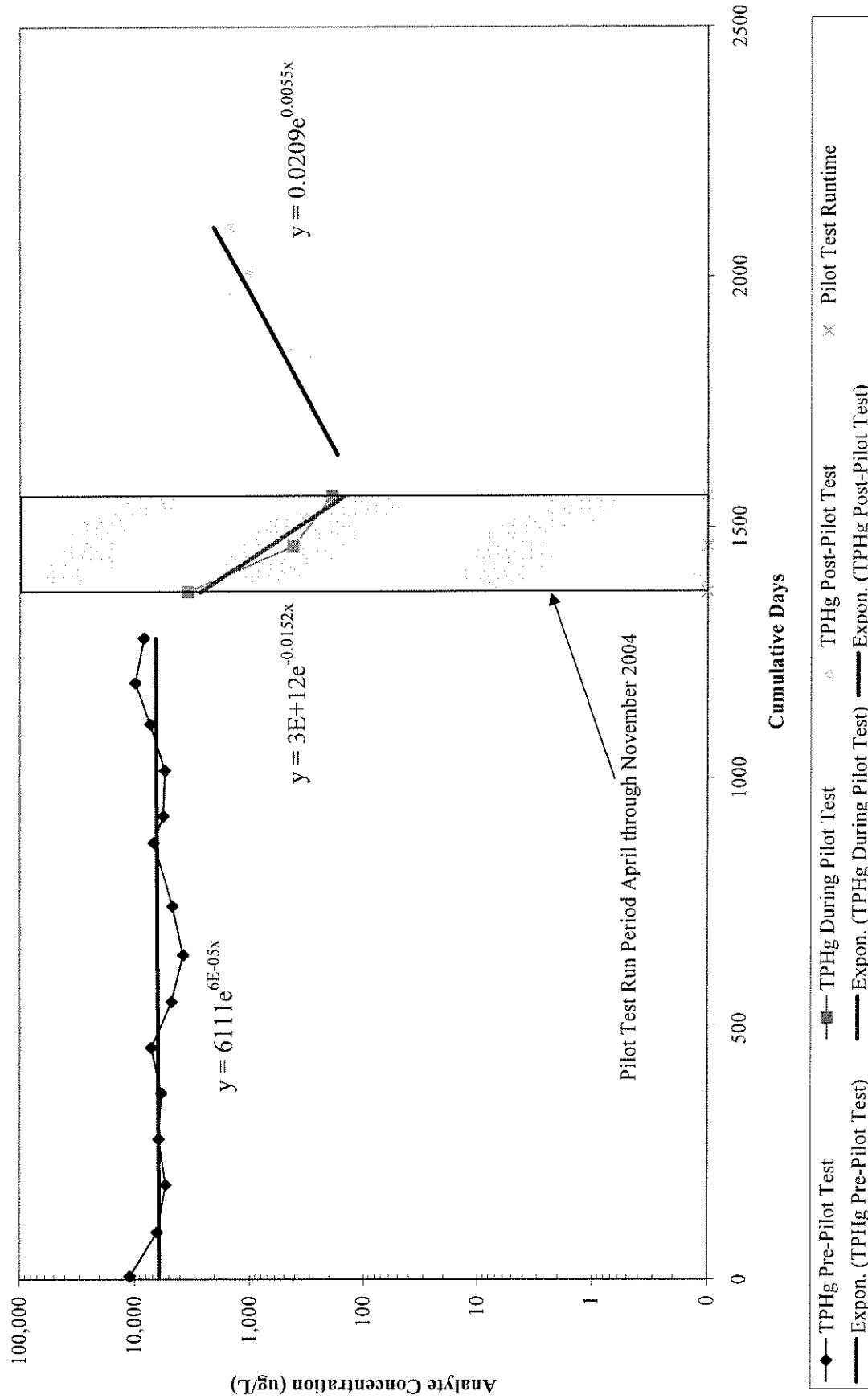


CHART 3: TPHg CONCENTRATIONS VS. CUMULATIVE DAYS IN MONITORING WELL MW7

Fortuna Shell; 809 Main St., Fortuna, California
LOP No. 12672; LACO No. 4563.03

TPHg Rebound in Monitoring Well MW7

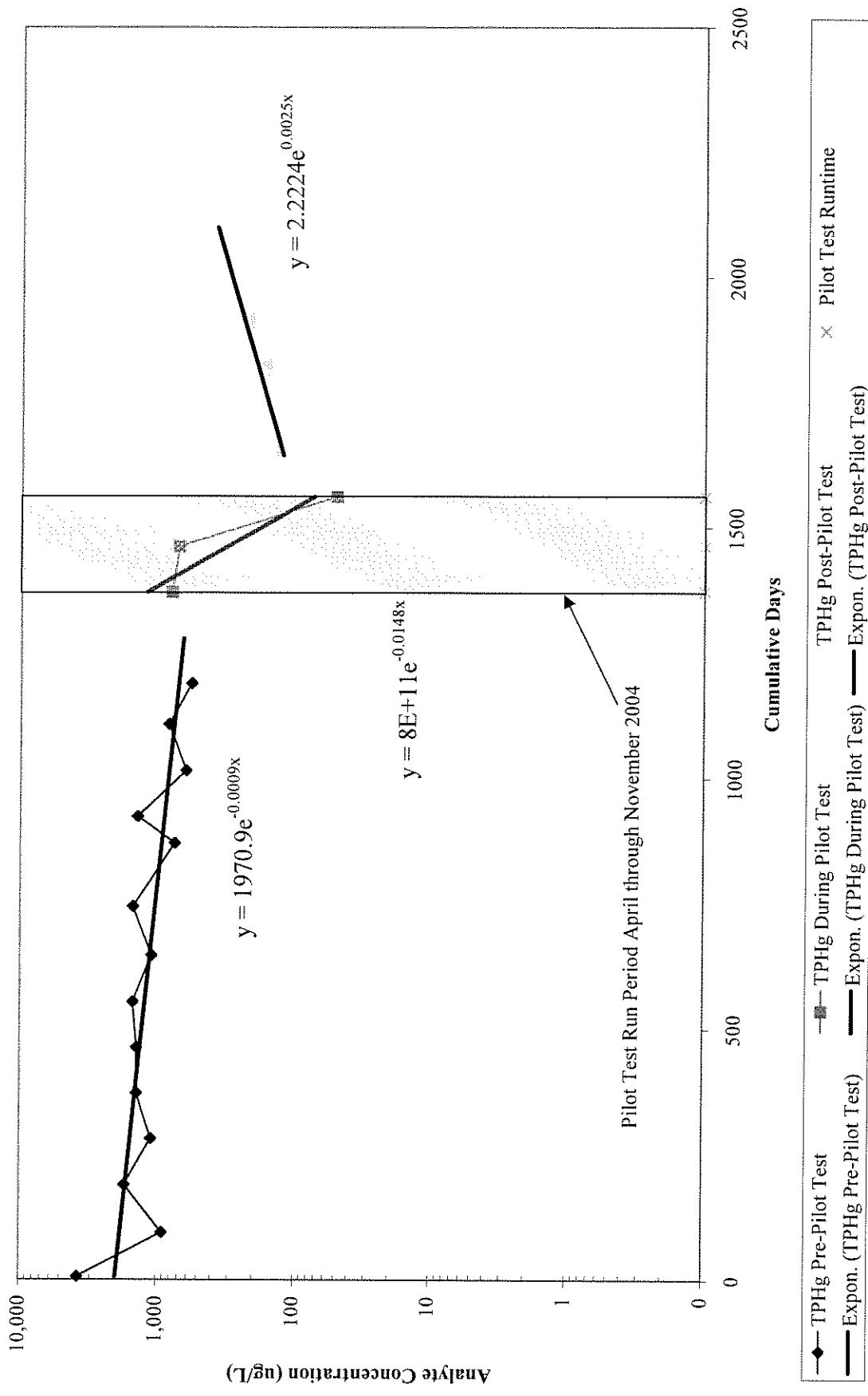
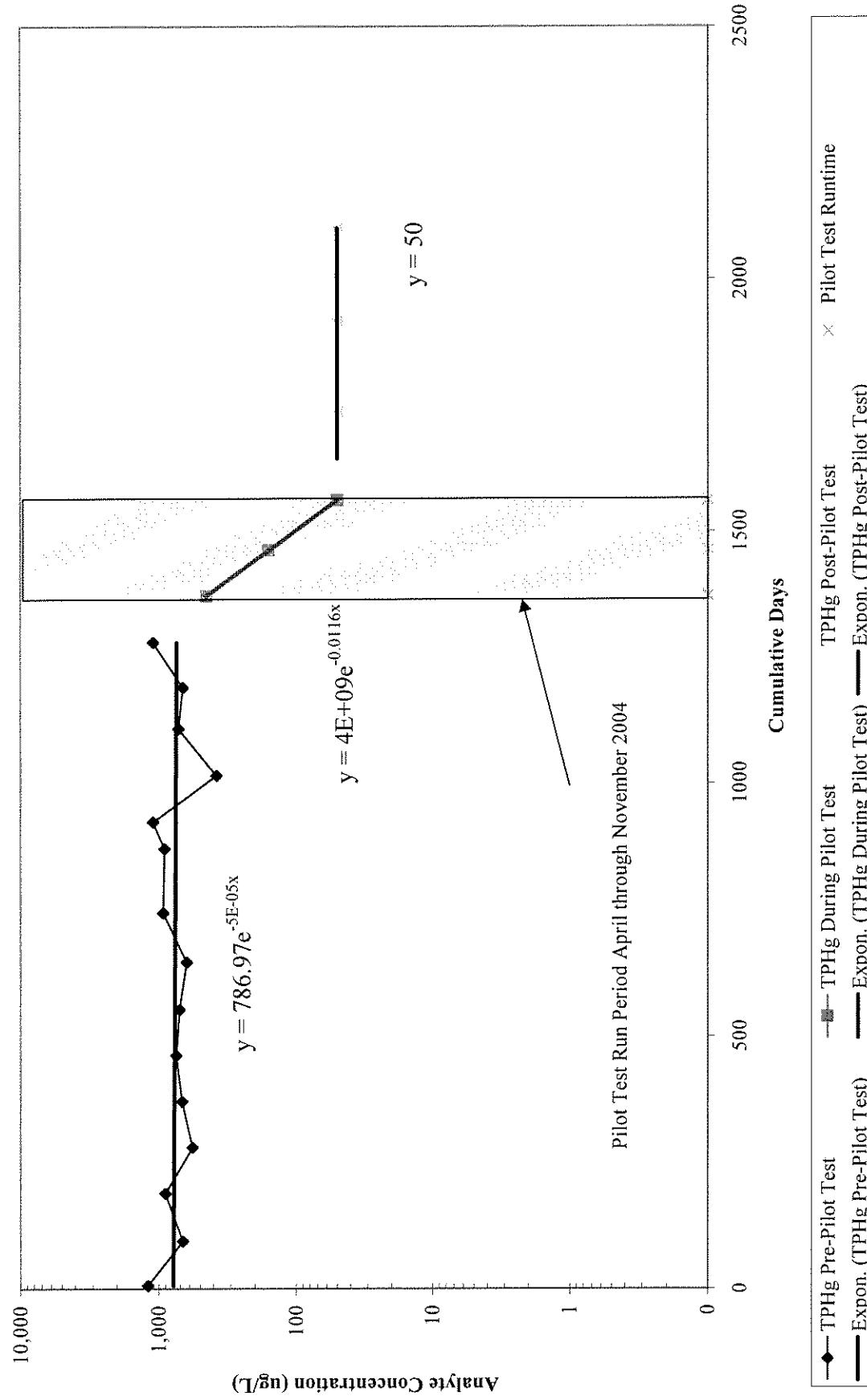


CHART 4: TPHg CONCENTRATIONS VS. CUMULATIVE DAYS IN MONITORING WELL MW6

Fortuna Shell; 809 Main St., Fortuna, California
LOP No. 12672; LACO No. 4563.03

TPHg Rebound in Monitoring Well MW6



Attachment 1



Project

Name: Fortuna Shell - W&S

Project No.: 4563.03

Date: 5-7-06

Global ID No.: T0602300471

PM: CJW

Tech: SJD / RWD

Mob/Demob time: 50/50

Travel time: 1.0

Time on site: 8:00

Time off site: 11:15

Mileage: 36

| WELL No. | MW17S | MW17D | MW11 | MW10 | MW9 |
|-------------------------|--|--|---|---|--|
| DIAMETER (in) | 1.50 | 1.50 | 2.00 | 2.00 | 2.00 |
| SCREENED INTERVAL (ft) | 22.5-24.5 | 26-28 | 12.5-15.5 | 12.5-15.5 | 12-15 |
| DEPTH TO WATER (ft) | 28.78 | 25.53 | 9.34 | 6.27 | 7.75 |
| FIELD INTRINSICS | INITIAL FINAL | INITIAL FINAL | INITIAL FINAL | INITIAL FINAL | INITIAL FINAL |
| pH | | | 6.3 6.4 | 6.9 6.9 | 6.7 7.1 |
| TEMP (°C) | | | 14.5 15.6 | 19.0 19.1 | 16.4 16.6 |
| E _{cm} (μmhos) | | | 310 300 | 200 190 | 270 260 |
| ORP (mV) | | | 45 37 | 46 46 | 46 46 |
| DO (mg/L) | | | 0.18 0.86 | 1.03 0.76 | 1.09 0.57 |
| OTHER (units) | | | | | |
| PURGE | TIME 5:15 8:21 8:25 8:31 9:03 9:09 3/4" B 0.18 1.0 CLEAR NO ODOR 23.5 | TIME 8:25 8:31 9:03 9:09 11:07 11:13 3/4" B 0.18 1.0 CLEAR NO ODOR 27.0 | TIME 9:03 9:09 11:07 11:13 DHP 0.25 1.5 CLEAR TINT NONE 13.5 | TIME 11:07 11:13 DHP 0.25 1.5 CLEAR TINT NONE 13.5 | TIME 11:13 9:33 DHP 0.25 1.5 CLEAR TINT NONE 13.5 |
| SAMPLE | TIME 8:23 8:33 3/4" B 8260 List 5 NOT DRAWN TO PUMP | TIME 8:33 3/4" B 8260 List 5 NOT DRAWN TO PUMP | TIME 9:03 DHP 8260 List 5 NOT DRAWN TO PUMP | TIME 11:07 DHP 8260 List 5 NOT DRAWN TO PUMP | TIME 11:13 DHP 8260 List 5 NOT DRAWN TO PUMP |
| WELL CONDITION | Good | Good | Good | Good | Good |
| WASTE DRUMS | | | | | |

DHP=DOWN HOLE PUMP CB=CHECK BALL B=BAILER FD=FIELD DUPLICATE MB=METHOD BLANK FF=FIELD FILTERED



Project Name: **Fortuna Shell - W&S**
 Project No.: **4563.03**
 Date: **5-2-06**
 Global ID No.: **T0602300471**
 PM: **CJW**

Tech: **SJD/RD**
 Mob/Demob time: **150 / 50**
 Travel time: **1.0**
 Time on site: **8:00**
 Time off site: **11:15**
 Mileage: **36**

| WELL No. | MW3 | MW6 | MW12 | MW7 | MW13 | | | | | | |
|--|----------------------------|----------------------------|---------------|----------------------------|---------------|--------------|-------|-------|-------|---|---|
| DIAMETER (in) | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 | | | | | | |
| SCREENED INTERVAL (ft) | 5-12 | 12-20 | 12.5-15 | 10 - 15 | 12.5-15 | | | | | | |
| DEPTH TO WATER (ft) | 4.53 | 4.65 | 9.01 | 4.17 | — | | | | | | |
| FIELD INTRINSICS | INITIAL FINAL | INITIAL FINAL | INITIAL FINAL | INITIAL FINAL | INITIAL FINAL | | | | | | |
| pH | 8.4 | 7.5 | 8.3 | 7.4 | 6.5 | 6.4 | 7.4 | 7.1 | — | — | |
| TEMP (°C) | 12.6 | 14.7 | 13.0 | 13.8 | 17.1 | 17.6 | 12.8 | 13.6 | — | — | |
| Ecv (μmhos) | 442 | 371 | 238 | 224 | 390 | 380 | 338 | 331 | — | — | |
| ORP (mV) | Ur | Ur | 5 | 49 | -67 | -94 | -88 | Ur | — | — | |
| DO (mg/L) | 1.12 | 0.52 | 1.09 | 0.62 | 0.76 | 0.92 | 1.15 | 0.50 | — | — | |
| OTHER (units) | — | — | — | — | — | — | — | — | — | — | |
| DEPTH MEASUREMENTS ARE REFERENCED TO TOP OF CASING | TIME | 9:11 | 9:19 | 9:36 | 9:44 | 10:01 | 10:07 | 10:01 | 10:09 | — | — |
| PURGE | METHOD (DHP/CB/B) | DHP | DHP | DHP | DHP | DHP | DHP | DHP | DHP | — | — |
| VOLUME (L) | RATE (Lpm) | 0.18 | 0.18 | 0.25 | 0.18 | — | — | — | — | — | — |
| COLOR | 1.40 | 1.40 | 1.5 | 1.40 | — | — | — | — | — | — | — |
| ODOR | CLEAR SIGHTLY YELLOW TINT | BROWN CLOUDY | — | CLEAR CLEAR | CLEAR | CLEAR | — | — | — | — | — |
| INTAKE DEPTH (FEET) | MED. RUBBER/FUEL | SLIGHT SWEET? | — | LIGHT SULFUR | LIGHT | SULFUR/SWEET | — | — | — | — | — |
| SAMPLE | TIME | 10.0 | 15.0 | 13.5 | 12.0 | — | — | — | — | — | — |
| ANALYTICS | METHOD (DHP/CB/B) | 9:21 | 9:46 | 10:07 | 10:11 | — | — | — | — | — | — |
| TOTAL DRAWDOWN (FEET) | 8260 List 5; TPHd/mo w/SGC | 8260 List 5; TPHd/mo w/SGC | 8260 List 5 | 8260 List 5; TPHd/mo w/SGC | 8260 List 5 | — | — | — | — | — | — |
| REMARKS | 0.92 | 2.80 | 1.00 | 1.33 | — | — | — | — | — | — | — |
| WELL CONDITION | 2 BOLT HOLES STRIPPED | good | GOOD | good | — | — | — | — | — | — | — |
| WASTE DRUMS | — | — | — | — | — | — | — | — | — | — | — |

DHP=DOWN HOLE PUMP CB=CHECK BALL B=BAILER FD=FIELD DUPLICATE MB=METHOD BLANK FF=FIELD FILTERED



| Project Name: Fortuna Shell - W&S | | Tech: SJD | | | | | | | | | |
|--|-----------------------|--------------------------------|---------|-------------------------------|---------|-------------------------------|----------------------------------|---|-------|-------------------------------|--|
| Project No.: 4563.03 | | Mob/Demob time: .50/.50 | | | | | | | | | |
| Date: 5-2-06 | | Travel time: 1.0 | | | | | | | | | |
| Global ID No.: T0602300471 | | Time on site: 8:00 | | | | | | | | | |
| PM: CJW | | Time off site: 11:15 | | | | | | | | | |
| | | Mileage: 36 | | | | | | | | | |
| WELL No. | MW1 | MW4 | MW14 | MW15 | MW16 | | | | | | |
| DIAMETER (in) | 2.00 | 2.00 | 1.50 | 1.50 | 1.50 | | | | | | |
| SCREENED INTERVAL (ft) | 6-10 | 5-10 | 5-10 | 5-10 | 5-10 | | | | | | |
| DEPTH TO WATER (ft) | 4.45 | 4.07 | 4.21 | 4.56 | 4.05 | | | | | | |
| FIELD INTRINSICS | INITIAL | FINAL | INITIAL | FINAL | INITIAL | FINAL | INITIAL | FINAL | | | |
| | pH | 6.60 | 6.4 | 7.6 | 7.1 | 7.6 | 7.1 | 7.6 | 7.2 | | |
| | TEMP (°C) | 17.9 | 18.0 | 13.2 | 13.9 | 14.4 | 15.8 | 15.6 | 15.9 | | |
| | Ecw (μmhos) | 200 | 230 | 330 | 318 | 352 | 352 | 362 | 355 | | |
| | ORP (mV) | -50 | -92 | Ur | Ur | -92 | Ur | -85 | -89 | | |
| | DO (mg/L) | 0.85 | 0.61 | 1.22 | 0.52 | 2.09 | 0.70 | 1.04 | 0.60 | | |
| OTHER (units) | | | | | | | | | | | |
| PURGE | TIME | 10:37 | 10:45 | 10:24 | 10:30 | 10:49 | 10:57 | 11:14 | 11:20 | | |
| | METHOD (DHP/CB/B) | DHP | | DHP | | DHP | | DHP | | | |
| | RATE (Lpm) | 0.25 | | 0.19 | | 0.18 | | 0.19 | | | |
| | VOLUME (L) | 2.0 | | 1.10 | | 1.40 | | 1.10 | | | |
| | COLOR | CLEAR | CLEAR | CLEAR | weak | near | clear | CLEAR | weak | | |
| | ODOR | MED STRONG FUEL | mED. | RUBBER / FUEL | | LIGHT RUBBER / FUEL | LIGHT RUBBER / SLIGHT PINE | MED GREEN TUBE JETTED CUTTED STRONG SHOE SOLES | | | |
| INTAKE DEPTH (FEET) | 7.5 | | 8.0 | | 9.0 | | 9.0 | | | | |
| SAMPLE | TIME | 10:47 | | 10:32 | | 10:59 | | 11:22 | | | |
| | METHOD (DHP/CB/B) | DHP | | DHP | | DHP | | DHP | | | |
| | ANALYTES | 8260 List 5; TPHd/mo w/SGC | | 8260 List 5; TPHd/mo w/SGC | | 8260 List 5; TPHd/mo w/SGC | | 8260 List 5; TPHd/mo w/SGC | | 8260 List 5; TPHd/mo w/SGC | |
| | TOTAL DRAWDOWN (FEET) | 0.16 | | 1.13 | | 2.14 | | 2.22 | | 0.54 | |
| | REMARKS | | | | | | | | | | |
| | WELL CONDITION | Good | | good | | good | | good | | good | |
| WASTE DRUMS | | | | | | | | | | | |

DHP=DOWN HOLE PUMP CB=CHECK BALL B=BAILER FD=FIELD DUPLICATE MB=METHOD BLANK FF=FIELD FILTERED



| | | | | | | | | | |
|--|-------------------------|-----------------------------------|--------------|-----------------------------------|---------------|-----------------------------------|--------------|----------|--|
| Project Name: Fortuna Shell - W&S | | | | Tech: SJD | | | | | |
| Project No.: 4563.03 | | | | Mob/Demob time: .50/.50 | | | | | |
| Date: 5-2-06 | | | | Travel time: 1.0 | | | | | |
| Global ID No.: T0602300471 | | | | Time on site: 8:00 | | | | | |
| PM: CJW | | | | Time off site: 11:15 | | | | | |
| | | | | Mileage: 36 | | | | | |
| WELL No.: | MW2 | MW8 | MW5 | | | | | | |
| DIAMETER (in) | 2.00 | 2.00 | 2.00 | | | | | | |
| SCREENED INTERVAL (ft) | 5-10 | 15-20 | 5-10 | | | | | | |
| DEPTH TO WATER (ft) | 4.22 | 10.43 | 64.14 | | | | | | |
| FIELD INTRINSICS | INITIAL | FINAL | INITIAL | FINAL | INITIAL | FINAL | INITIAL | FINAL | |
| | pH | 6.6 | 6.6 | 8.4 | 7.4 | — | — | | |
| | TEMP (°C) | 18.7 | 14.2 | 16.7 | 16.4 | — | — | | |
| | E _{ew} (µmhos) | 370 | 370 | 326 | 330 | — | — | | |
| | ORP (mV) | wr | wr | -22 | -30 | — | — | | |
| | DO (mg/L) | 0.89 | 0.39 | 1.93 | 0.55 | — | — | | |
| | OTHER (units) | — | | — | | — | | — | |
| DEPTH MEASUREMENTS ARE REFERENCED TO TOP OF CASING PURGE | TIME | 11:43 | 11:49 | 12:19 | 12:25 | 12:00 | 12:05 | | |
| | METHOD (DHP/CB/B) | DHP | | DHP | | Cam | | | |
| | RATE (Lpm) | 0.25 | | 0.19 | | 0.10 | | | |
| | VOLUME (L) | 1.5 | | 1.10 | | 0.50 | | | |
| | COLOR | CLEAR | CLEAR | CLEAR | CLOUDY | CLEAR | CLEAR | | |
| | ODOR | MED / MED FUEL / Sulfur | | MED / LIGHT SWEET / PINE | | STRONG FUEL | | | |
| | INTAKE DEPTH (FEET) | 7.0 | | 17.0 | | 7.5 | | | |
| SAMPLE | TIME | 11:51 | | 12:27 | | 12:07 | | | |
| | METHOD (DHP/CB/B) | DHP | | DHP | | Cam | | | |
| | ANALYTICS | 8260 List 5; TPHd/mo w/SGC | | 8260 List 5; TPHd/mo w/SGC | | 8260 List 5; TPHd/mo w/SGC | | | |
| | TOTAL DRAWDOWN (FEET) | 0.22 | | 2.50 | | — | | | |
| | REMARKS | — | | — | | 3rd DHT 1-13F | | | |
| WELL CONDITION | Good | | good | | Good | | | | |
| WASTE DRUMS | | | | | | | | | |



LACO ASSOCIATES

CONSULTING ENGINEERS

CONSULTING ENGINEERS

21 West Fourth Street, Eureka, CA 95501

TEL 707.443.5054

FAX 707.443.0553

Project Name: FORTUNA SHELL
Project No.: 4563.03

Tech: SJD
Date: 5-2-06



LACO ASSOCIATES

CONSULTING ENGINEERS

21 West Fourth Street, Eureka, CA 95501

TEL 707.443.5054

FAX 707.443.0553

Project Name: FORTUNA SHELL
Project No.: 4563.03

Tech: SJD
Date: 5-2-06



ACO ASSOCIATES

CONSULTING ENGINEERS

21 West Fourth Street, Eureka, CA 95501

TEL 707.443.5054

FAX 707.443.0553

Project Name:

Fortuna Pública

Tech

Date: 12/17/2012

Project No.: 4562.02



LACO ASSOCIATES

CONSULTING ENGINEERS

21 West Fourth Street, Eureka, CA 95501
TEL 707.443.5054
FAX 707.443.0553

Project Name: FORTUNA SHELL - W35
Project No.: 4563.03

Tech: SJD
Date: 5-2-06



LACO ASSOCIATES

CONSULTING ENGINEERS

21 West Fourth Street, Eureka, CA 95501

TEL 707.443.5054

FAX 707.443.0553

Project Name:

Tech: P. E. D.

Date: 2-2-04

Project No.: 4563.63

Project No.: 4563.03

Project No.: 4563.03

| WELL ID: MW173 | | WELL ID: MW17D | | WELL ID: MW11 | | WELL ID: MW9 | | WELL ID: MW12 | | WELL ID: MW1 | |
|----------------|----------|----------------|----------|---------------|----------|--------------|----------|---------------|----------|--------------|----------|
| TIME | DTW (ft) | TIME | DTW (ft) | TIME | DTW (ft) | TIME | DTW (ft) | TIME | DTW (ft) | TIME | DTW (ft) |
| 9:00 | 22.78 | 9:05 | 25.53 | 9:49 | 9.34 | 9:12 | 7.73 | 9:46 | 9.01 | 10:20 | 4.45 |
| 9:10 | 22.78 | 8:12 | 25.53 | 8:59 | 9.34 | 9:21 | 7.73 | 9:56 | 9.01 | 10:30 | 4.45 |

WELL ID: MW10

WELL ID: Abel 2

WELL ID:

WELL ID:

WELL ID:

WEINID.

WELL ID:

WELL ID:

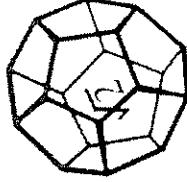
WELL ID:

WELL ID:

WELL ID:

WELL ID:

**NORTH COAST
LABORATORIES LTD.**



5601 West Ind Road • Arcata • CA 95521-9202
707-822-4649 Fax 707-822-6641

Chain of Custody

Attention: Accounts Payable

Results & Invoice to: Laco Associates
Address: 21 W. 4th St. Eureka CA 95501

Phone:

Copies of Report to: LACO ; Chris Watt

Sampler (Sign & Print): SJD *S. J. D.*

PROJECT INFORMATION

Project Number: 4563.03

Project Name: FORTUNA SHELL

Purchase Order Number: task 3230

ANALYSIS
8260 List 5
TPH/dmo w/SOC

LABORATORY NUMBER:

| LAB ID | SAMPLE ID | DATE | TIME | MATRIX* |
|--------|-------------|--------|------|---------|
| | 4563-MW1-W | 5-2-06 | AM | GW |
| | 4563-MW2-W | | | |
| | 4563-MW3-W | | | |
| | 4563-MW4-W | | | |
| | 4563-MW5-W | | | |
| | 4563-MW6-W | | | |
| | 4563-MW7-W | | | |
| | 4563-MW8-W | | | |
| | 4563-MW9-W | | | |
| | 4563-MW10-W | | | |

RELINQUISHED BY (Sign & Print)

DATE/TIME

RECEIVED BY (Sign)

DATE/TIME

SAMPLE DISPOSAL

NCL Disposal of Non-Contaminated
 Return
 Pickup

CHAIN OF CUSTODY SEALS Y/N/NA
SHIPPED VIA: UPS Air-Ex Fed-Ex Bus Hand

| | |
|---|--|
| TAT: <input type="checkbox"/> 24 Hr <input checked="" type="checkbox"/> 48 Hr <input type="checkbox"/> 5 Day <input type="checkbox"/> 5-7 Day | |
| <input checked="" type="checkbox"/> STD (2-3 Wk) <input type="checkbox"/> Other: _____ | |
| PRIOR AUTHORIZATION IS REQUIRED FOR RUSHES | |

| | |
|--|--|
| REPORTING REQUIREMENTS: State Forms: | |
| Preliminary: <input checked="" type="checkbox"/> FAX <input type="checkbox"/> Verbal <input type="checkbox"/> By: _____ | |
| Final Report: <input type="checkbox"/> FAX <input checked="" type="checkbox"/> Verbal <input type="checkbox"/> By: _____ | |

| | |
|--|--|
| CONTAINER CODES: 1—1/2 gal. pl; 2—250 ml pl; 3—500 ml pl; 4—1 L Nalgene; 5—250 ml BG; 6—500 ml BG; 7—1 L BG; 8—1 L cg; 9—40 ml VOA; 10—125 ml VOA; 11—4 oz glass jar; 12—8 oz glass jar; 13—brass tube; 14—other | |
| PRESERVATIVE CODES: a—HNO ₃ ; b—HCl; c—H ₂ SO ₄ ; d—Na ₂ O ₂ ; e—NaOH; f—C ₂ H ₅ O ₂ Cl; g—other | |

| | |
|---|--|
| SAMPLE CONDITION/SPECIAL INSTRUCTIONS GEOTRACKER | |
|---|--|

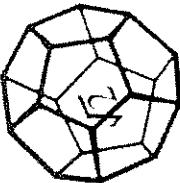
*MATRIX: DW=Drinking Water; Eff=Effluent; Inf=Influent; SW=Surface Water; GW=Ground Water; S=Soil; O=Other.

ALL CONTAMINATED NON-AQUEOUS SAMPLES WILL BE RETURNED TO CLIENT

CHAI N OF CUSTODY

LABORATORIES LTD.

1000 Westland Road • Arcata • CA 95521-9202
707.822.4649 fax 707.822.4644



| | | | | | |
|--|----------------------|--|--------|-------|---------|
| Attention: Accounts Payable | Phone: | 48 Hr | 5 Day | 5 Day | 5-7 Day |
| Results & Invoice to: Laco Associates | Copies of Report to: | STD (2-3 Wk) | Other: | | |
| Address: 21 W. 4th St. Eureka CA 95501 | | PRIOR AUTHORIZATION IS REQUIRED FOR RUSHES | | | |
| REPORTING REQUIREMENTS: State Forms | | | | | |
| Preliminary: <input checked="" type="checkbox"/> FAX | Vertical | By: _____ | | | |
| Final Report: <input checked="" type="checkbox"/> FAX | Verbal | By: _____ | | | |
| CONTAINER CODES: 1—1/2 gal, pt; 2—250 ml pt; 3—500 ml pt; 4—1 L Nalgene; 5—250 ml BG; 6—500 ml BG; 7—1 L BG; 8—1 L CG; 9—40 ml VOA; 10—125 ml VOA; 11—4 oz glass jar; 12—8 oz glass jar; 13—brass tube; 14—other | | | | | |
| PRESERVATIVE CODES: a—HNO ₃ ; b—HCl; c—H ₂ SO ₄ ; d—Na ₂ S ₂ O ₃ ; e—NaOH; f—C ₂ H ₅ O ₂ Cl; g—other | | | | | |
| SAMPLE CONDITION/SPECIAL INSTRUCTIONS | | | | | |
| GEOTRACKER | | | | | |
| ANALYSIS | | | | | |
| 8260 List 5 | | | | | |
| TPhd/mo w/SGC | | | | | |
| CONAINER PRESERVATIVE | | | | | |
| PROJECT INFORMATION | | | | | |
| Project Number: 4563.03 | | | | | |
| Project Name: FORTUNA SHELL | | | | | |
| Purchase Order Number: TASK 3057 | | | | | |
| LAB ID SAMPLE ID DATE TIME MATRIX* | | | | | |
| 4563-MW11-W | 5-2-06 | AM | GW | 3 | |
| 4563-MW12-W | | | | 3 | |
| 4563-MW14-W | | | | 3 | |
| 4563-MW15-W | | | | 3 | |
| 4563-MW16-W | | | | 3 | |
| 4563-MW17-S-W | | | | 3 | |
| 4563-MW17D-W | | | | 3 | |
| 4563-QCTB-W | | PM | V | 1 | |
| RELINQUISHED BY (Sign & Print) DATE/TIME RECEIVED BY (Sign) | | | | | |
| SAMPLE DISPOSAL DATE/TIME | | | | | |
| NCL Disposal of Non-Contaminated | | | | | |
| Return | | | | | |
| CHAIN OF CUSTODY SEALS Y/N/NA | | | | | |
| SHIPPED VIA: UPS Air-Fx Fed-Ex Bus Hand | | | | | |

MATRIX: DW=Drinking Water; Eff=Effluent; Inf=Influent; SW=Surface Water; GW=Ground Water; S=Soil; O=Other.

ALL CONTAMINATED NON-AQUEOUS SAMPLES WILL BE RETURNED TO CLIENT

Attachment 2

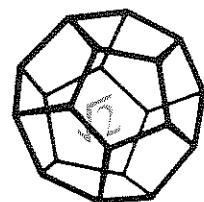
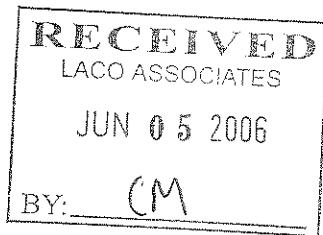
ATTACHMENT 2: KEY TO ABBREVIATIONS

Fortuna Shell; 809 Main St., Fortuna, California

LACO No. 4563.03; LOP No. 12672

| KEY TO ABBREVIATIONS | |
|-----------------------------|--|
| Alk | -- Alkalinity |
| BTEX | -- Benzene; Toluene; Ethylbenzene; m,p- and o- Xylenes |
| CO ₂ | -- Carbon dioxide |
| COC | -- Chain of custody |
| Cr | -- Chromium |
| DHP | -- Down-hole-pump (submersible pump) |
| DIPE | -- Di-isopropyl Ether |
| Dis | -- Dissolved |
| DO | -- Dissolved Oxygen |
| DTW | -- Depth-to-Water |
| ECw | -- Electrical Conductivity in water |
| ETBE | -- Ethyl Tertiary Butyl Ether |
| Fe | -- Iron |
| FP | -- Free Product |
| Mn | -- Manganese |
| MTBE | -- Methyl Tertiary Butyl Ether |
| N | -- Nitrogen |
| ND<50 | -- non-detect at reporting limits shown |
| NO ₃ | -- Nitrate |
| NOT | -- Sample not analyzed for parameter |
| ACTIVE | -- during current sampling event |
| ORP | -- Oxidation Reduction Potential |
| P | -- Phosphorous |
| PCP/TCP | -- penta- tetra- tri- chlorophenols |
| pH | -- Potential of hydrogen |
| SGC | -- Silica gel cleanup |
| SO ₄ | -- Sulfate |
| T | -- Temperature |
| T&P | -- Tape and Paste |
| TAME | -- Tertiary Amyl Methyl Ether |
| TBA | -- Tertiary Butyl Alcohol |
| TBF | -- Tertiary Butyl Formate |
| TIC | -- Total Inorganic Carbon |
| TOC | -- Total Organic Carbon |
| Tot | -- Total |
| TPHd | -- Total Petroleum Hydrocarbons as Diesel |
| TPHg | -- Total Petroleum Hydrocarbons as Gasoline |
| TPHk | -- Total Petroleum Hydrocarbons as Kerosene |
| TPHmo | -- Total Petroleum Hydrocarbons as Motor Oil |
| TPHs | -- Total Petroleum Hydrocarbons as Solvent |
| µg/L | -- Micro grams per liter (parts per billion) |
| -- | -- Sample not analyzed for parameter |

Attachment 3



NORTH COAST
LABORATORIES LTD.

May 31, 2006

LACO Associates
P.O. Box 1023
Eureka, CA 95502

CJW *[Signature]*

Attn: Accounts Payable

RE: 4563.03 FORTUNA SHELL

Order No.: 0605036
Invoice No.: 58440
PO No.: TASK 3039
ELAP No. 1247-Expires July 2006

SAMPLE IDENTIFICATION

| Fraction | Client Sample Description |
|----------|---------------------------|
| 01A | 4563-MW1-W |
| 01D | 4563-MW1-W |
| 02A | 4563-MW2-W |
| 02D | 4563-MW2-W |
| 03A | 4563-MW3-W |
| 03D | 4563-MW3-W |
| 04A | 4563-MW4-W |
| 04D | 4563-MW4-W |
| 05A | 4563-MW5-W |
| 05D | 4563-MW5-W |
| 06A | 4563-MW6-W |
| 06D | 4563-MW6-W |
| 07A | 4563-MW7-W |
| 07D | 4563-MW7-W |
| 08A | 4563-MW8-W |
| 08D | 4563-MW8-W |
| 09A | 4563-MW14-W |
| 09D | 4563-MW14-W |
| 10A | 4563-MW15-W |
| 10D | 4563-MW15-W |
| 11A | 4563-MW16-W |
| 11D | 4563-MW16-W |
| 12A | 4563-MW9-W |
| 13A | 4563-MW10-W |
| 14A | 4563-MW11-W |
| 15A | 4563-MW12-W |
| 16A | 4563-MW17S-W |
| 17A | 4563-MW17D-W |
| 18A | 4563-QCTB-W |

ND = Not Detected at the Reporting Limit

Limit = Reporting Limit

All solid results are expressed on a wet-weight basis unless otherwise noted.

REPORT CERTIFIED BY

Colleen Blackstone *T. Sher* *Jesse G. Chaney, Jr.*

Laboratory Supervisor(s) QA Unit
5680 West End Road • Arcata California 95521-9202 • 707-822-4649 FAX 707-822-6831
Laboratory Director

CLIENT: LACO Associates
Project: 4563.03 FORTUNA SHELL
Lab Order: 0605036

CASE NARRATIVE**Gasoline Components/Additives:**

Some reporting limits were raised for samples 4563-MW2-W, 4563-MW4-W, 4563-MW5-W, 4563-MW7-W, 4563-MW8-W, 4563-MW15-W, 4563-MW16-W, 4563-MW12-W and 4563-MW17S-W due to matrix interference.

TPH as Gasoline:

Samples 4563-MW3-W and 4563-MW14-W do not present a peak pattern consistent with that of gasoline. The reported results represent the amount of material in the gasoline range.

The gasoline values for samples 4563-MW1-W, 4563-MW2-W, 4563-MW4-W, 4563-MW5-W, 4563-MW15-W and 4563-MW16-W include the reported gasoline components and additives in addition to other peaks in the gasoline range.

The gasoline value for sample 4563-MW17D-W includes the reported gasoline additives in addition to other peaks in the gasoline range.

The gasoline values for samples 4563-MW7-W, 4563-MW8-W, 4563-MW12-W and 4563-MW17S-W are primarily from the reported gasoline additives.

TPH as Diesel/Motor Oil w/Silica Gel Cleanup:

All samples submitted for a silica gel cleanup were initially analyzed for diesel/motor oil. The samples showing no detectable levels of the analytes were not subjected to the cleanup procedure.

Samples 4563-MW1-W, 4563-MW2-W, 4563-MW3-W, 4563-MW5-W, 4563-MW15-W and 4563-MW16-W contain some material lighter than diesel. However, some of this material extends into the diesel range of molecular weights.

Samples 4563-MW1-W, 4563-MW2-W, 4563-MW3-W, 4563-MW4-W, 4563-MW5-W, 4563-MW7-W, 4563-MW14-W, 4563-MW15-W and 4563-MW16-W contain material in the diesel range of molecular weights, but the material does not exhibit the peak pattern typical of diesel oil.

TPH as Diesel/Motor Oil:

The laboratory control sample (LCS) recovery was below the lower acceptance limit for diesel. The laboratory control sample duplicate (LCSD) recovery was within the acceptance limits; therefore, the data were accepted.

Date: 30-May-06
WorkOrder: 0605036

ANALYTICAL REPORT

Client Sample ID: 4563-MW1-W

Received: 5/2/06

Collected: 5/2/06 0:00

Lab ID: 0605036-01A

Matrix: Groundwater

Test Name: Gasoline Components/Additives

Reference: LUFT/EPA 8260B Modified

| Parameter | Result | Limit | Units | DF | Extracted | Analyzed |
|-----------------------------------|--------|----------|-------|-----|-----------|----------|
| Methyl tert-butyl ether (MTBE) | ND | 1.0 | µg/L | 1.0 | | 5/10/06 |
| Tert-butyl alcohol (TBA) | ND | 10 | µg/L | 1.0 | | 5/10/06 |
| Di-isopropyl ether (DIPE) | ND | 1.0 | µg/L | 1.0 | | 5/10/06 |
| Ethyl tert-butyl ether (ETBE) | ND | 1.0 | µg/L | 1.0 | | 5/10/06 |
| Benzene | 4.4 | 0.50 | µg/L | 1.0 | | 5/10/06 |
| Tert-amyl methyl ether (TAME) | ND | 1.0 | µg/L | 1.0 | | 5/10/06 |
| 1,2-Dichloroethane | ND | 1.0 | µg/L | 1.0 | | 5/10/06 |
| Toluene | 7.0 | 0.50 | µg/L | 1.0 | | 5/10/06 |
| 1,2-Dibromoethane (EDB) | ND | 1.0 | µg/L | 1.0 | | 5/10/06 |
| Chlorobenzene | ND | 1.0 | µg/L | 1.0 | | 5/10/06 |
| Ethylbenzene | 44 | 0.50 | µg/L | 1.0 | | 5/10/06 |
| m,p-Xylene | 16 | 0.50 | µg/L | 1.0 | | 5/10/06 |
| o-Xylene | 1.8 | 0.50 | µg/L | 1.0 | | 5/10/06 |
| 1,3-Dichlorobenzene | ND | 1.0 | µg/L | 1.0 | | 5/10/06 |
| 1,4-Dichlorobenzene | ND | 1.0 | µg/L | 1.0 | | 5/10/06 |
| 1,2-Dichlorobenzene | ND | 1.0 | µg/L | 1.0 | | 5/10/06 |
| Surrogate: 1,4-Dichlorobenzene-d4 | 91.7 | 80.8-139 | % Rec | 1.0 | | 5/10/06 |

Test Name: TPH as Gasoline

Reference: LUFT/EPA 8260B Modified

| Parameter | Result | Limit | Units | DF | Extracted | Analyzed |
|---------------|--------|-------|-------|-----|-----------|----------|
| TPHC Gasoline | 4,100 | 50 | µg/L | 1.0 | | 5/10/06 |

Client Sample ID: 4563-MW1-W

Received: 5/2/06

Collected: 5/2/06 0:00

Lab ID: 0605036-01D

Matrix: Groundwater

Test Name: TPH as Diesel/Motor Oil w/ Silica Gel Cleanup

Reference: EPA 3510/3630/GCFID(LUFT)/8015B

| Parameter | Result | Limit | Units | DF | Extracted | Analyzed |
|-----------------------|--------|-------|-------|-----|-----------|----------|
| TPHC Diesel (C12-C22) | 240 | 50 | µg/L | 1.0 | 5/10/06 | 5/26/06 |
| TPHC Motor Oil | ND | 170 | µg/L | 1.0 | 5/10/06 | 5/26/06 |

Date: 30-May-06
WorkOrder: 0605036

ANALYTICAL REPORT

Client Sample ID: 4563-MW2-W

Received: 5/2/06

Collected: 5/2/06 0:00

Lab ID: 0605036-02A Matrix: Groundwater

Test Name: Gasoline Components/Additives

Reference: LUFT/EPA 8260B Modified

| Parameter | Result | Limit | Units | DF | Extracted | Analyzed |
|-----------------------------------|--------|----------|-------|-----|-----------|----------|
| Methyl tert-butyl ether (MTBE) | ND | 7.0 | µg/L | 1.0 | | 5/11/06 |
| Tert-butyl alcohol (TBA) | ND | 10 | µg/L | 1.0 | | 5/11/06 |
| Di-isopropyl ether (DIPE) | ND | 1.0 | µg/L | 1.0 | | 5/11/06 |
| Ethyl tert-butyl ether (ETBE) | ND | 1.0 | µg/L | 1.0 | | 5/11/06 |
| Benzene | 18 | 0.50 | µg/L | 1.0 | | 5/11/06 |
| Tert-amyl methyl ether (TAME) | ND | 1.0 | µg/L | 1.0 | | 5/11/06 |
| 1,2-Dichloroethane | ND | 1.0 | µg/L | 1.0 | | 5/11/06 |
| Toluene | 6.3 | 0.50 | µg/L | 1.0 | | 5/11/06 |
| 1,2-Dibromoethane (EDB) | ND | 1.0 | µg/L | 1.0 | | 5/11/06 |
| Chlorobenzene | ND | 1.0 | µg/L | 1.0 | | 5/11/06 |
| Ethylbenzene | 40 | 0.50 | µg/L | 1.0 | | 5/11/06 |
| m,p-Xylene | 25 | 0.50 | µg/L | 1.0 | | 5/11/06 |
| o-Xylene | 1.6 | 0.50 | µg/L | 1.0 | | 5/11/06 |
| 1,3-Dichlorobenzene | ND | 1.0 | µg/L | 1.0 | | 5/11/06 |
| 1,4-Dichlorobenzene | ND | 1.0 | µg/L | 1.0 | | 5/11/06 |
| 1,2-Dichlorobenzene | ND | 1.0 | µg/L | 1.0 | | 5/11/06 |
| Surrogate: 1,4-Dichlorobenzene-d4 | 89.0 | 80.8-139 | % Rec | 1.0 | | 5/11/06 |

Test Name: TPH as Gasoline

Reference: LUFT/EPA 8260B Modified

| Parameter | Result | Limit | Units | DF | Extracted | Analyzed |
|---------------|--------|-------|-------|----|-----------|----------|
| TPHC Gasoline | 5,800 | 2,500 | µg/L | 50 | | 5/11/06 |

Client Sample ID: 4563-MW2-W

Received: 5/2/06

Collected: 5/2/06 0:00

Lab ID: 0605036-02D Matrix: Groundwater

Test Name: TPH as Diesel/Motor Oil w/ Silica Gel Cleanup

Reference: EPA 3510/3630/GCFID(LUFT)/8015B

| Parameter | Result | Limit | Units | DF | Extracted | Analyzed |
|-----------------------|--------|-------|-------|-----|-----------|----------|
| TPHC Diesel (C12-C22) | 630 | 50 | µg/L | 1.0 | 5/10/06 | 5/26/06 |
| TPHC Motor Oil | ND | 170 | µg/L | 1.0 | 5/10/06 | 5/26/06 |

Date: 30-May-06
WorkOrder: 0605036

ANALYTICAL REPORT

Client Sample ID: 4563-MW3-W

Received: 5/2/06

Collected: 5/2/06 0:00

Lab ID: 0605036-03A **Matrix:** Groundwater

Test Name: Gasoline Components/Additives

Reference: LUFT/EPA 8260B Modified

| Parameter | Result | Limit | Units | DF | Extracted | Analyzed |
|-----------------------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| Methyl tert-butyl ether (MTBE) | 6.7 | 1.0 | µg/L | 1.0 | | 5/11/06 |
| Tert-butyl alcohol (TBA) | ND | 10 | µg/L | 1.0 | | 5/11/06 |
| Di-isopropyl ether (DIPE) | ND | 1.0 | µg/L | 1.0 | | 5/11/06 |
| Ethyl tert-butyl ether (ETBE) | ND | 1.0 | µg/L | 1.0 | | 5/11/06 |
| Benzene | 2.8 | 0.50 | µg/L | 1.0 | | 5/11/06 |
| Tert-amyl methyl ether (TAME) | 1.0 | 1.0 | µg/L | 1.0 | | 5/11/06 |
| 1,2-Dichloroethane | ND | 1.0 | µg/L | 1.0 | | 5/11/06 |
| Toluene | 0.58 | 0.50 | µg/L | 1.0 | | 5/11/06 |
| 1,2-Dibromoethane (EDB) | ND | 1.0 | µg/L | 1.0 | | 5/11/06 |
| Chlorobenzene | ND | 1.0 | µg/L | 1.0 | | 5/11/06 |
| Ethylbenzene | ND | 0.50 | µg/L | 1.0 | | 5/11/06 |
| m,p-Xylene | 0.96 | 0.50 | µg/L | 1.0 | | 5/11/06 |
| o-Xylene | 0.70 | 0.50 | µg/L | 1.0 | | 5/11/06 |
| 1,3-Dichlorobenzene | ND | 1.0 | µg/L | 1.0 | | 5/11/06 |
| 1,4-Dichlorobenzene | ND | 1.0 | µg/L | 1.0 | | 5/11/06 |
| 1,2-Dichlorobenzene | ND | 1.0 | µg/L | 1.0 | | 5/11/06 |
| Surrogate: 1,4-Dichlorobenzene-d4 | 92.1 | 80.8-139 | % Rec | 1.0 | | 5/11/06 |

Test Name: TPH as Gasoline

Reference: LUFT/EPA 8260B Modified

| Parameter | Result | Limit | Units | DF | Extracted | Analyzed |
|------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| TPHC Gasoline | 1,800 | 50 | µg/L | 1.0 | | 5/11/06 |

Client Sample ID: 4563-MW3-W

Received: 5/2/06

Collected: 5/2/06 0:00

Lab ID: 0605036-03D **Matrix:** Groundwater

Test Name: TPH as Diesel/Motor Oil w/ Silica Gel Cleanup

Reference: EPA 3510/3630/GCFID(LUFT)/8015B

| Parameter | Result | Limit | Units | DF | Extracted | Analyzed |
|-----------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| TPHC Diesel (C12-C22) | 210 | 50 | µg/L | 1.0 | 5/10/06 | 5/26/06 |
| TPHC Motor Oil | ND | 170 | µg/L | 1.0 | 5/10/06 | 5/26/06 |

Date: 30-May-06
WorkOrder: 0605036

ANALYTICAL REPORT

Client Sample ID: 4563-MW4-W Received: 5/2/06 Collected: 5/2/06 0:00
Lab ID: 0605036-04A Matrix: Groundwater

Test Name: Gasoline Components/Additives

Reference: LUFT/EPA 8260B Modified

| Parameter | Result | Limit | Units | DF | Extracted | Analyzed |
|-----------------------------------|--------|----------|-------|-----|-----------|----------|
| Methyl tert-butyl ether (MTBE) | 3.5 | 1.0 | µg/L | 1.0 | | 5/11/06 |
| Tert-butyl alcohol (TBA) | ND | 70 | µg/L | 1.0 | | 5/11/06 |
| Di-isopropyl ether (DIPE) | ND | 1.0 | µg/L | 1.0 | | 5/11/06 |
| Ethyl tert-butyl ether (ETBE) | ND | 1.0 | µg/L | 1.0 | | 5/11/06 |
| Benzene | 8.5 | 0.50 | µg/L | 1.0 | | 5/11/06 |
| Tert-amyl methyl ether (TAME) | ND | 1.0 | µg/L | 1.0 | | 5/11/06 |
| 1,2-Dichloroethane | ND | 1.0 | µg/L | 1.0 | | 5/11/06 |
| Toluene | 0.90 | 0.50 | µg/L | 1.0 | | 5/11/06 |
| 1,2-Dibromoethane (EDB) | ND | 1.0 | µg/L | 1.0 | | 5/11/06 |
| Chlorobenzene | ND | 1.0 | µg/L | 1.0 | | 5/11/06 |
| Ethylbenzene | 5.7 | 0.50 | µg/L | 1.0 | | 5/11/06 |
| m,p-Xylene | 1.5 | 0.50 | µg/L | 1.0 | | 5/11/06 |
| o-Xylene | ND | 0.50 | µg/L | 1.0 | | 5/11/06 |
| 1,3-Dichlorobenzene | ND | 1.0 | µg/L | 1.0 | | 5/11/06 |
| 1,4-Dichlorobenzene | ND | 1.0 | µg/L | 1.0 | | 5/11/06 |
| 1,2-Dichlorobenzene | ND | 1.0 | µg/L | 1.0 | | 5/11/06 |
| Surrogate: 1,4-Dichlorobenzene-d4 | 93.3 | 80.8-139 | % Rec | 1.0 | | 5/11/06 |

Test Name: TPH as Gasoline

Reference: LUFT/EPA 8260B Modified

| Parameter | Result | Limit | Units | DF | Extracted | Analyzed |
|---------------|--------|-------|-------|-----|-----------|----------|
| TPHC Gasoline | 1,600 | 50 | µg/L | 1.0 | | 5/11/06 |

Client Sample ID: 4563-MW4-W

Received: 5/2/06

Collected: 5/2/06 0:00

Lab ID: 0605036-04D Matrix: Groundwater

Test Name: TPH as Diesel/Motor Oil w/ Silica Gel Cleanup Reference: EPA 3510/3630/GCFID(LUFT)/8015B

| Parameter | Result | Limit | Units | DF | Extracted | Analyzed |
|-----------------------|--------|-------|-------|-----|-----------|----------|
| TPHC Diesel (C12-C22) | 140 | 50 | µg/L | 1.0 | 5/10/06 | 5/26/06 |
| TPHC Motor Oil | ND | 170 | µg/L | 1.0 | 5/10/06 | 5/26/06 |

Date: 30-May-06
WorkOrder: 0605036

ANALYTICAL REPORT

Client Sample ID: 4563-MW5-W

Received: 5/2/06

Collected: 5/2/06 0:00

Lab ID: 0605036-05A Matrix: Groundwater

Test Name: Gasoline Components/Additives

Reference: LUFT/EPA 8260B Modified

| Parameter | Result | Limit | Units | DF | Extracted | Analyzed |
|-----------------------------------|--------|----------|-------|-----|-----------|----------|
| Methyl tert-butyl ether (MTBE) | ND | 60 | µg/L | 1.0 | | 5/11/06 |
| Tert-butyl alcohol (TBA) | ND | 50 | µg/L | 1.0 | | 5/11/06 |
| Di-isopropyl ether (DIPE) | ND | 1.0 | µg/L | 1.0 | | 5/11/06 |
| Ethyl tert-butyl ether (ETBE) | ND | 1.0 | µg/L | 1.0 | | 5/11/06 |
| Benzene | 280 | 25 | µg/L | 50 | | 5/11/06 |
| Tert-amyl methyl ether (TAME) | 2.6 | 1.0 | µg/L | 1.0 | | 5/11/06 |
| 1,2-Dichloroethane | ND | 2.0 | µg/L | 1.0 | | 5/11/06 |
| Toluene | 14 | 0.50 | µg/L | 1.0 | | 5/11/06 |
| 1,2-Dibromoethane (EDB) | ND | 1.0 | µg/L | 1.0 | | 5/11/06 |
| Chlorobenzene | ND | 1.0 | µg/L | 1.0 | | 5/11/06 |
| Ethylbenzene | 140 | 25 | µg/L | 50 | | 5/11/06 |
| m,p-Xylene | 79 | 0.50 | µg/L | 1.0 | | 5/11/06 |
| o-Xylene | 1.6 | 0.50 | µg/L | 1.0 | | 5/11/06 |
| 1,3-Dichlorobenzene | ND | 1.0 | µg/L | 1.0 | | 5/11/06 |
| 1,4-Dichlorobenzene | ND | 1.0 | µg/L | 1.0 | | 5/11/06 |
| 1,2-Dichlorobenzene | ND | 1.0 | µg/L | 1.0 | | 5/11/06 |
| Surrogate: 1,4-Dichlorobenzene-d4 | 91.2 | 80.8-139 | % Rec | 1.0 | | 5/11/06 |

Test Name: TPH as Gasoline

Reference: LUFT/EPA 8260B Modified

| Parameter | Result | Limit | Units | DF | Extracted | Analyzed |
|---------------|--------|-------|-------|----|-----------|----------|
| TPHC Gasoline | 9,300 | 2,500 | µg/L | 50 | | 5/11/06 |

Client Sample ID: 4563-MW5-W

Received: 5/2/06

Collected: 5/2/06 0:00

Lab ID: 0605036-05D Matrix: Groundwater

Test Name: TPH as Diesel/Motor Oil w/ Silica Gel Cleanup

Reference: EPA 3510/3630/GCFID(LUFT)/8015B

| Parameter | Result | Limit | Units | DF | Extracted | Analyzed |
|-----------------------|--------|-------|-------|-----|-----------|----------|
| TPHC Diesel (C12-C22) | 780 | 50 | µg/L | 1.0 | 5/10/06 | 5/26/06 |
| TPHC Motor Oil | ND | 170 | µg/L | 1.0 | 5/10/06 | 5/26/06 |

Date: 30-May-06
WorkOrder: 0605036

ANALYTICAL REPORT

Client Sample ID: 4563-MW6-W

Received: 5/2/06

Collected: 5/2/06 0:00

Lab ID: 0605036-06A

Matrix: Groundwater

Test Name: Gasoline Components/Additives

Reference: LUFT/EPA 8260B Modified

| Parameter | Result | Limit | Units | DF | Extracted | Analyzed |
|-----------------------------------|--------|----------|-------|-----|-----------|----------|
| Methyl tert-butyl ether (MTBE) | 10 | 1.0 | µg/L | 1.0 | | 5/10/06 |
| Tert-butyl alcohol (TBA) | ND | 10 | µg/L | 1.0 | | 5/10/06 |
| Di-isopropyl ether (DIPE) | ND | 1.0 | µg/L | 1.0 | | 5/10/06 |
| Ethyl tert-butyl ether (ETBE) | ND | 1.0 | µg/L | 1.0 | | 5/10/06 |
| Benzene | ND | 0.50 | µg/L | 1.0 | | 5/10/06 |
| Tert-amyl methyl ether (TAME) | ND | 1.0 | µg/L | 1.0 | | 5/10/06 |
| 1,2-Dichloroethane | ND | 1.0 | µg/L | 1.0 | | 5/10/06 |
| Toluene | ND | 0.50 | µg/L | 1.0 | | 5/10/06 |
| 1,2-Dibromoethane (EDB) | ND | 1.0 | µg/L | 1.0 | | 5/10/06 |
| Chlorobenzene | ND | 1.0 | µg/L | 1.0 | | 5/10/06 |
| Ethylbenzene | ND | 0.50 | µg/L | 1.0 | | 5/10/06 |
| m,p-Xylene | ND | 0.50 | µg/L | 1.0 | | 5/10/06 |
| o-Xylene | ND | 0.50 | µg/L | 1.0 | | 5/10/06 |
| 1,3-Dichlorobenzene | ND | 1.0 | µg/L | 1.0 | | 5/10/06 |
| 1,4-Dichlorobenzene | ND | 1.0 | µg/L | 1.0 | | 5/10/06 |
| 1,2-Dichlorobenzene | ND | 1.0 | µg/L | 1.0 | | 5/10/06 |
| Surrogate: 1,4-Dichlorobenzene-d4 | 95.3 | 80.8-139 | % Rec | 1.0 | | 5/10/06 |

Test Name: TPH as Gasoline

Reference: LUFT/EPA 8260B Modified

| Parameter | Result | Limit | Units | DF | Extracted | Analyzed |
|---------------|--------|-------|-------|-----|-----------|----------|
| TPHC Gasoline | ND | 50 | µg/L | 1.0 | | 5/10/06 |

Client Sample ID: 4563-MW6-W

Received: 5/2/06

Collected: 5/2/06 0:00

Lab ID: 0605036-06D

Matrix: Groundwater

Test Name: TPH as Diesel/Motor Oil

Reference: EPA 3510/GCFID(LUFT)/EPA 8015B

| Parameter | Result | Limit | Units | DF | Extracted | Analyzed |
|-----------------------|--------|-------|-------|-----|-----------|----------|
| TPHC Diesel (C12-C22) | ND | 50 | µg/L | 1.0 | 5/5/06 | 5/6/06 |
| TPHC Motor Oil | ND | 170 | µg/L | 1.0 | 5/5/06 | 5/6/06 |

Date: 30-May-06
WorkOrder: 0605036

ANALYTICAL REPORT

Client Sample ID: 4563-MW7-W

Received: 5/2/06

Collected: 5/2/06 0:00

Lab ID: 0605036-07A Matrix: Groundwater

Test Name: Gasoline Components/Additives

Reference: LUFT/EPA 8260B Modified

| Parameter | Result | Limit | Units | DF | Extracted | Analyzed |
|-----------------------------------|--------|----------|-------|-----|-----------|----------|
| Methyl tert-butyl ether (MTBE) | 310 | 50 | µg/L | 50 | | 5/11/06 |
| Tert-butyl alcohol (TBA) | ND | 100 | µg/L | 1.0 | | 5/11/06 |
| Di-isopropyl ether (DIPE) | ND | 1.0 | µg/L | 1.0 | | 5/11/06 |
| Ethyl tert-butyl ether (ETBE) | ND | 2.0 | µg/L | 1.0 | | 5/11/06 |
| Benzene | ND | 0.50 | µg/L | 1.0 | | 5/11/06 |
| Tert-amyl methyl ether (TAME) | 16 | 1.0 | µg/L | 1.0 | | 5/11/06 |
| 1,2-Dichloroethane | ND | 1.0 | µg/L | 1.0 | | 5/11/06 |
| Toluene | ND | 0.50 | µg/L | 1.0 | | 5/11/06 |
| 1,2-Dibromoethane (EDB) | ND | 1.0 | µg/L | 1.0 | | 5/11/06 |
| Chlorobenzene | ND | 1.0 | µg/L | 1.0 | | 5/11/06 |
| Ethylbenzene | ND | 0.50 | µg/L | 1.0 | | 5/11/06 |
| m,p-Xylene | ND | 0.50 | µg/L | 1.0 | | 5/11/06 |
| o-Xylene | ND | 0.50 | µg/L | 1.0 | | 5/11/06 |
| 1,3-Dichlorobenzene | ND | 1.0 | µg/L | 1.0 | | 5/11/06 |
| 1,4-Dichlorobenzene | ND | 1.0 | µg/L | 1.0 | | 5/11/06 |
| 1,2-Dichlorobenzene | ND | 1.0 | µg/L | 1.0 | | 5/11/06 |
| Surrogate: 1,4-Dichlorobenzene-d4 | 96.8 | 80.8-139 | % Rec | 1.0 | | 5/11/06 |

Test Name: TPH as Gasoline

Reference: LUFT/EPA 8260B Modified

| Parameter | Result | Limit | Units | DF | Extracted | Analyzed |
|---------------|--------|-------|-------|-----|-----------|----------|
| TPHC Gasoline | 360 | 50 | µg/L | 1.0 | | 5/11/06 |

Client Sample ID: 4563-MW7-W

Received: 5/2/06

Collected: 5/2/06 0:00

Lab ID: 0605036-07D Matrix: Groundwater

Test Name: TPH as Diesel/Motor Oil w/ Silica Gel Cleanup

Reference: EPA 3510/3630/GCFID(LUFT)/8015B

| Parameter | Result | Limit | Units | DF | Extracted | Analyzed |
|-----------------------|--------|-------|-------|-----|-----------|----------|
| TPHC Diesel (C12-C22) | 51 | 50 | µg/L | 1.0 | 5/10/06 | 5/26/06 |
| TPHC Motor Oil | ND | 170 | µg/L | 1.0 | 5/10/06 | 5/26/06 |

Date: 30-May-06
WorkOrder: 0605036

ANALYTICAL REPORT

Client Sample ID: 4563-MW8-W

Received: 5/2/06

Collected: 5/2/06 0:00

Lab ID: 0605036-08A **Matrix:** Groundwater

Test Name: Gasoline Components/Additives

Reference: LUFT/EPA 8260B Modified

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|-----------------------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| Methyl tert-butyl ether (MTBE) | 2,100 | 50 | µg/L | 50 | | 5/11/06 |
| Tert-butyl alcohol (TBA) | 440 | 10 | µg/L | 1.0 | | 5/11/06 |
| Di-isopropyl ether (DIPE) | ND | 4.0 | µg/L | 1.0 | | 5/11/06 |
| Ethyl tert-butyl ether (ETBE) | 8.3 | 1.0 | µg/L | 1.0 | | 5/11/06 |
| Benzene | ND | 0.50 | µg/L | 1.0 | | 5/11/06 |
| Tert-amyl methyl ether (TAME) | 81 | 1.0 | µg/L | 1.0 | | 5/11/06 |
| 1,2-Dichloroethane | 1.7 | 1.0 | µg/L | 1.0 | | 5/11/06 |
| Toluene | ND | 0.50 | µg/L | 1.0 | | 5/11/06 |
| 1,2-Dibromoethane (EDB) | ND | 1.0 | µg/L | 1.0 | | 5/11/06 |
| Chlorobenzene | ND | 1.0 | µg/L | 1.0 | | 5/11/06 |
| Ethylbenzene | ND | 0.50 | µg/L | 1.0 | | 5/11/06 |
| m,p-Xylene | ND | 0.50 | µg/L | 1.0 | | 5/11/06 |
| o-Xylene | ND | 0.50 | µg/L | 1.0 | | 5/11/06 |
| 1,3-Dichlorobenzene | ND | 1.0 | µg/L | 1.0 | | 5/11/06 |
| 1,4-Dichlorobenzene | ND | 1.0 | µg/L | 1.0 | | 5/11/06 |
| 1,2-Dichlorobenzene | ND | 1.0 | µg/L | 1.0 | | 5/11/06 |
| Surrogate: 1,4-Dichlorobenzene-d4 | 94.8 | 80.8-139 | % Rec | 1.0 | | 5/11/06 |

Test Name: TPH as Gasoline

Reference: LUFT/EPA 8260B Modified

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| TPHC Gasoline | 1,700 | 50 | µg/L | 1.0 | | 5/11/06 |

Client Sample ID: 4563-MW8-W

Received: 5/2/06

Collected: 5/2/06 0:00

Lab ID: 0605036-08D **Matrix:** Groundwater

Test Name: TPH as Diesel/Motor Oil w/ Silica Gel Cleanup

Reference: EPA 3510/3630/GCFID(LUFT)/8015B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|-----------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| TPHC Diesel (C12-C22) | ND | 50 | µg/L | 1.0 | 5/10/06 | 5/26/06 |
| TPHC Motor Oil | ND | 170 | µg/L | 1.0 | 5/10/06 | 5/26/06 |

Date: 30-May-06
WorkOrder: 0605036

ANALYTICAL REPORT

Client Sample ID: 4563-MW14-W

Received: 5/2/06

Collected: 5/2/06 0:00

Lab ID: 0605036-09A Matrix: Groundwater

Test Name: Gasoline Components/Additives

Reference: LUFT/EPA 8260B Modified

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|-----------------------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| Methyl tert-butyl ether (MTBE) | 2.1 | 1.0 | µg/L | 1.0 | | 5/11/06 |
| Tert-butyl alcohol (TBA) | ND | 10 | µg/L | 1.0 | | 5/11/06 |
| Di-isopropyl ether (DIPE) | ND | 1.0 | µg/L | 1.0 | | 5/11/06 |
| Ethyl tert-butyl ether (ETBE) | ND | 1.0 | µg/L | 1.0 | | 5/11/06 |
| Benzene | 0.73 | 0.50 | µg/L | 1.0 | | 5/11/06 |
| Tert-amyl methyl ether (TAME) | ND | 1.0 | µg/L | 1.0 | | 5/11/06 |
| 1,2-Dichloroethane | ND | 1.0 | µg/L | 1.0 | | 5/11/06 |
| Toluene | ND | 0.50 | µg/L | 1.0 | | 5/11/06 |
| 1,2-Dibromoethane (EDB) | ND | 1.0 | µg/L | 1.0 | | 5/11/06 |
| Chlorobenzene | ND | 1.0 | µg/L | 1.0 | | 5/11/06 |
| Ethylbenzene | ND | 0.50 | µg/L | 1.0 | | 5/11/06 |
| m,p-Xylene | ND | 0.50 | µg/L | 1.0 | | 5/11/06 |
| o-Xylene | ND | 0.50 | µg/L | 1.0 | | 5/11/06 |
| 1,3-Dichlorobenzene | ND | 1.0 | µg/L | 1.0 | | 5/11/06 |
| 1,4-Dichlorobenzene | ND | 1.0 | µg/L | 1.0 | | 5/11/06 |
| 1,2-Dichlorobenzene | ND | 1.0 | µg/L | 1.0 | | 5/11/06 |
| Surrogate: 1,4-Dichlorobenzene-d4 | 93.4 | 80.8-139 | % Rec | 1.0 | | 5/11/06 |

Test Name: TPH as Gasoline

Reference: LUFT/EPA 8260B Modified

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| TPHC Gasoline | 210 | 50 | µg/L | 1.0 | | 5/11/06 |

Client Sample ID: 4563-MW14-W

Received: 5/2/06

Collected: 5/2/06 0:00

Lab ID: 0605036-09D Matrix: Groundwater

Test Name: TPH as Diesel/Motor Oil w/ Silica Gel Cleanup

Reference: EPA 3510/3630/GCFID(LUFT)/8015B

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|-----------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| TPHC Diesel (C12-C22) | 100 | 50 | µg/L | 1.0 | 5/10/06 | 5/26/06 |
| TPHC Motor Oil | ND | 170 | µg/L | 1.0 | 5/10/06 | 5/26/06 |

Date: 30-May-06
WorkOrder: 0605036

ANALYTICAL REPORT

Client Sample ID: 4563-MW15-W

Received: 5/2/06

Collected: 5/2/06 0:00

Lab ID: 0605036-10A

Matrix: Groundwater

Test Name: Gasoline Components/Additives

Reference: LUFT/EPA 8260B Modified

| Parameter | Result | Limit | Units | DF | Extracted | Analyzed |
|-----------------------------------|--------|----------|-------|-----|-----------|----------|
| Methyl tert-butyl ether (MTBE) | 50 | 1.0 | µg/L | 1.0 | | 5/11/06 |
| Tert-butyl alcohol (TBA) | ND | 30 | µg/L | 1.0 | | 5/11/06 |
| Di-isopropyl ether (DIPE) | ND | 1.0 | µg/L | 1.0 | | 5/11/06 |
| Ethyl tert-butyl ether (ETBE) | ND | 1.0 | µg/L | 1.0 | | 5/11/06 |
| Benzene | 79 | 0.50 | µg/L | 1.0 | | 5/11/06 |
| Tert-amyl methyl ether (TAME) | 2.8 | 1.0 | µg/L | 1.0 | | 5/11/06 |
| 1,2-Dichloroethane | ND | 1.0 | µg/L | 1.0 | | 5/11/06 |
| Toluene | 2.2 | 0.50 | µg/L | 1.0 | | 5/11/06 |
| 1,2-Dibromoethane (EDB) | ND | 1.0 | µg/L | 1.0 | | 5/11/06 |
| Chlorobenzene | ND | 1.0 | µg/L | 1.0 | | 5/11/06 |
| Ethylbenzene | 11 | 0.50 | µg/L | 1.0 | | 5/11/06 |
| m,p-Xylene | 3.8 | 0.50 | µg/L | 1.0 | | 5/11/06 |
| o-Xylene | ND | 0.50 | µg/L | 1.0 | | 5/11/06 |
| 1,3-Dichlorobenzene | ND | 1.0 | µg/L | 1.0 | | 5/11/06 |
| 1,4-Dichlorobenzene | ND | 1.0 | µg/L | 1.0 | | 5/11/06 |
| 1,2-Dichlorobenzene | ND | 1.0 | µg/L | 1.0 | | 5/11/06 |
| Surrogate: 1,4-Dichlorobenzene-d4 | 93.7 | 80.8-139 | % Rec | 1.0 | | 5/11/06 |

Test Name: TPH as Gasoline

Reference: LUFT/EPA 8260B Modified

| Parameter | Result | Limit | Units | DF | Extracted | Analyzed |
|---------------|--------|-------|-------|-----|-----------|----------|
| TPHC Gasoline | 1,600 | 50 | µg/L | 1.0 | | 5/11/06 |

Client Sample ID: 4563-MW15-W

Received: 5/2/06

Collected: 5/2/06 0:00

Lab ID: 0605036-10D

Matrix: Groundwater

Test Name: TPH as Diesel/Motor Oil w/ Silica Gel Cleanup

Reference: EPA 3510/3630/GCFID(LUFT)/8015B

| Parameter | Result | Limit | Units | DF | Extracted | Analyzed |
|-----------------------|--------|-------|-------|-----|-----------|----------|
| TPHC Diesel (C12-C22) | 79 | 50 | µg/L | 1.0 | 5/10/06 | 5/26/06 |
| TPHC Motor Oil | 200 | 170 | µg/L | 1.0 | 5/10/06 | 5/26/06 |

Date: 30-May-06
WorkOrder: 0605036

ANALYTICAL REPORT

Client Sample ID: 4563-MW16-W

Received: 5/2/06

Collected: 5/2/06 0:00

Lab ID: 0605036-11A

Matrix: Groundwater

Test Name: Gasoline Components/Additives

Reference: LUFT/EPA 8260B Modified

| Parameter | Result | Limit | Units | DF | Extracted | Analyzed |
|-----------------------------------|--------|----------|-------|-----|-----------|----------|
| Methyl tert-butyl ether (MTBE) | 300 | 50 | µg/L | 50 | | 5/11/06 |
| Tert-butyl alcohol (TBA) | ND | 100 | µg/L | 1.0 | | 5/11/06 |
| Di-isopropyl ether (DIPE) | ND | 1.0 | µg/L | 1.0 | | 5/11/06 |
| Ethyl tert-butyl ether (ETBE) | 3.8 | 1.0 | µg/L | 1.0 | | 5/11/06 |
| Benzene | 790 | 25 | µg/L | 50 | | 5/11/06 |
| Tert-amyl methyl ether (TAME) | 8.5 | 1.0 | µg/L | 1.0 | | 5/11/06 |
| 1,2-Dichloroethane | ND | 1.0 | µg/L | 1.0 | | 5/11/06 |
| Toluene | 21 | 0.50 | µg/L | 1.0 | | 5/11/06 |
| 1,2-Dibromoethane (EDB) | ND | 1.0 | µg/L | 1.0 | | 5/11/06 |
| Chlorobenzene | ND | 1.0 | µg/L | 1.0 | | 5/11/06 |
| Ethylbenzene | 22 | 0.50 | µg/L | 1.0 | | 5/11/06 |
| m,p-Xylene | 44 | 0.50 | µg/L | 1.0 | | 5/11/06 |
| o-Xylene | 7.3 | 0.50 | µg/L | 1.0 | | 5/11/06 |
| 1,3-Dichlorobenzene | ND | 1.0 | µg/L | 1.0 | | 5/11/06 |
| 1,4-Dichlorobenzene | ND | 1.0 | µg/L | 1.0 | | 5/11/06 |
| 1,2-Dichlorobenzene | ND | 1.0 | µg/L | 1.0 | | 5/11/06 |
| Surrogate: 1,4-Dichlorobenzene-d4 | 90.7 | 80.8-139 | % Rec | 1.0 | | 5/11/06 |

Test Name: TPH as Gasoline

Reference: LUFT/EPA 8260B Modified

| Parameter | Result | Limit | Units | DF | Extracted | Analyzed |
|---------------|--------|-------|-------|----|-----------|----------|
| TPHC Gasoline | 6,600 | 2,500 | µg/L | 50 | | 5/11/06 |

Client Sample ID: 4563-MW16-W

Received: 5/2/06

Collected: 5/2/06 0:00

Lab ID: 0605036-11D

Matrix: Groundwater

Test Name: TPH as Diesel/Motor Oil w/ Silica Gel Cleanup

Reference: EPA 3510/3630/GCFID(LUFT)/8015B

| Parameter | Result | Limit | Units | DF | Extracted | Analyzed |
|-----------------------|--------|-------|-------|-----|-----------|----------|
| TPHC Diesel (C12-C22) | 300 | 50 | µg/L | 1.0 | 5/10/06 | 5/26/06 |
| TPHC Motor Oil | ND | 170 | µg/L | 1.0 | 5/10/06 | 5/26/06 |

Date: 30-May-06
WorkOrder: 0605036

ANALYTICAL REPORT

Client Sample ID: 4563-MW9-W

Received: 5/2/06

Collected: 5/2/06 0:00

Lab ID: 0605036-12A Matrix: Groundwater

Test Name: Gasoline Components/Additives

Reference: LUFT/EPA 8260B Modified

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|-----------------------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| Methyl tert-butyl ether (MTBE) | 4.6 | 1.0 | µg/L | 1.0 | | 5/10/06 |
| Tert-butyl alcohol (TBA) | ND | 10 | µg/L | 1.0 | | 5/10/06 |
| Di-isopropyl ether (DIPE) | ND | 1.0 | µg/L | 1.0 | | 5/10/06 |
| Ethyl tert-butyl ether (ETBE) | ND | 1.0 | µg/L | 1.0 | | 5/10/06 |
| Benzene | ND | 0.50 | µg/L | 1.0 | | 5/10/06 |
| Tert-amyl methyl ether (TAME) | ND | 1.0 | µg/L | 1.0 | | 5/10/06 |
| 1,2-Dichloroethane | ND | 1.0 | µg/L | 1.0 | | 5/10/06 |
| Toluene | ND | 0.50 | µg/L | 1.0 | | 5/10/06 |
| 1,2-Dibromoethane (EDB) | ND | 1.0 | µg/L | 1.0 | | 5/10/06 |
| Chlorobenzene | ND | 1.0 | µg/L | 1.0 | | 5/10/06 |
| Ethylbenzene | ND | 0.50 | µg/L | 1.0 | | 5/10/06 |
| m,p-Xylene | ND | 0.50 | µg/L | 1.0 | | 5/10/06 |
| o-Xylene | ND | 0.50 | µg/L | 1.0 | | 5/10/06 |
| 1,3-Dichlorobenzene | ND | 1.0 | µg/L | 1.0 | | 5/10/06 |
| 1,4-Dichlorobenzene | ND | 1.0 | µg/L | 1.0 | | 5/10/06 |
| 1,2-Dichlorobenzene | ND | 1.0 | µg/L | 1.0 | | 5/10/06 |
| Surrogate: 1,4-Dichlorobenzene-d4 | 94.0 | 80.8-139 | % Rec | 1.0 | | 5/10/06 |

Test Name: TPH as Gasoline

Reference: LUFT/EPA 8260B Modified

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| TPHC Gasoline | ND | 50 | µg/L | 1.0 | | 5/10/06 |

Date: 30-May-06
WorkOrder: 0605036

ANALYTICAL REPORT

Client Sample ID: 4563-MW10-W

Received: 5/2/06

Collected: 5/2/06 0:00

Lab ID: 0605036-13A Matrix: Groundwater

Test Name: Gasoline Components/Additives

Reference: LUFT/EPA 8260B Modified

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|-----------------------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| Methyl tert-butyl ether (MTBE) | 5.0 | 1.0 | µg/L | 1.0 | | 5/10/06 |
| Tert-butyl alcohol (TBA) | ND | 10 | µg/L | 1.0 | | 5/10/06 |
| Di-isopropyl ether (DIPE) | ND | 1.0 | µg/L | 1.0 | | 5/10/06 |
| Ethyl tert-butyl ether (ETBE) | ND | 1.0 | µg/L | 1.0 | | 5/10/06 |
| Benzene | ND | 0.50 | µg/L | 1.0 | | 5/10/06 |
| Tert-amyl methyl ether (TAME) | ND | 1.0 | µg/L | 1.0 | | 5/10/06 |
| 1,2-Dichloroethane | ND | 1.0 | µg/L | 1.0 | | 5/10/06 |
| Toluene | ND | 0.50 | µg/L | 1.0 | | 5/10/06 |
| 1,2-Dibromoethane (EDB) | ND | 1.0 | µg/L | 1.0 | | 5/10/06 |
| Chlorobenzene | ND | 1.0 | µg/L | 1.0 | | 5/10/06 |
| Ethylbenzene | ND | 0.50 | µg/L | 1.0 | | 5/10/06 |
| m,p-Xylene | ND | 0.50 | µg/L | 1.0 | | 5/10/06 |
| o-Xylene | ND | 0.50 | µg/L | 1.0 | | 5/10/06 |
| 1,3-Dichlorobenzene | ND | 1.0 | µg/L | 1.0 | | 5/10/06 |
| 1,4-Dichlorobenzene | ND | 1.0 | µg/L | 1.0 | | 5/10/06 |
| 1,2-Dichlorobenzene | ND | 1.0 | µg/L | 1.0 | | 5/10/06 |
| Surrogate: 1,4-Dichlorobenzene-d4 | 94.9 | 80.8-139 | % Rec | 1.0 | | 5/10/06 |

Test Name: TPH as Gasoline

Reference: LUFT/EPA 8260B Modified

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| TPHC Gasoline | ND | 50 | µg/L | 1.0 | | 5/10/06 |

Date: 30-May-06
WorkOrder: 0605036

ANALYTICAL REPORT

Client Sample ID: 4563-MW11-W

Received: 5/2/06

Collected: 5/2/06 0:00

Lab ID: 0605036-14A Matrix: Groundwater

Test Name: Gasoline Components/Additives

Reference: LUFT/EPA 8260B Modified

| Parameter | Result | Limit | Units | DF | Extracted | Analyzed |
|-----------------------------------|--------|----------|-------|-----|-----------|----------|
| Methyl tert-butyl ether (MTBE) | 3.2 | 1.0 | µg/L | 1.0 | | 5/11/06 |
| Tert-butyl alcohol (TBA) | ND | 10 | µg/L | 1.0 | | 5/11/06 |
| Di-isopropyl ether (DIPE) | ND | 1.0 | µg/L | 1.0 | | 5/11/06 |
| Ethyl tert-butyl ether (ETBE) | ND | 1.0 | µg/L | 1.0 | | 5/11/06 |
| Benzene | ND | 0.50 | µg/L | 1.0 | | 5/11/06 |
| Tert-amyl methyl ether (TAME) | ND | 1.0 | µg/L | 1.0 | | 5/11/06 |
| 1,2-Dichloroethane | ND | 1.0 | µg/L | 1.0 | | 5/11/06 |
| Toluene | ND | 0.50 | µg/L | 1.0 | | 5/11/06 |
| 1,2-Dibromoethane (EDB) | ND | 1.0 | µg/L | 1.0 | | 5/11/06 |
| Chlorobenzene | ND | 1.0 | µg/L | 1.0 | | 5/11/06 |
| Ethylbenzene | ND | 0.50 | µg/L | 1.0 | | 5/11/06 |
| m,p-Xylene | ND | 0.50 | µg/L | 1.0 | | 5/11/06 |
| o-Xylene | ND | 0.50 | µg/L | 1.0 | | 5/11/06 |
| 1,3-Dichlorobenzene | ND | 1.0 | µg/L | 1.0 | | 5/11/06 |
| 1,4-Dichlorobenzene | ND | 1.0 | µg/L | 1.0 | | 5/11/06 |
| 1,2-Dichlorobenzene | ND | 1.0 | µg/L | 1.0 | | 5/11/06 |
| Surrogate: 1,4-Dichlorobenzene-d4 | 95.5 | 80.8-139 | % Rec | 1.0 | | 5/11/06 |

Test Name: TPH as Gasoline

Reference: LUFT/EPA 8260B Modified

| Parameter | Result | Limit | Units | DF | Extracted | Analyzed |
|---------------|--------|-------|-------|-----|-----------|----------|
| TPHC Gasoline | ND | 50 | µg/L | 1.0 | | 5/11/06 |

Date: 30-May-06
WorkOrder: 0605036

ANALYTICAL REPORT

Client Sample ID: 4563-MW12-W

Received: 5/2/06

Collected: 5/2/06 0:00

Lab ID: 0605036-15A

Matrix: Groundwater

Test Name: Gasoline Components/Additives

Reference: LUFT/EPA 8260B Modified

| Parameter | Result | Limit | Units | DF | Extracted | Analyzed |
|-----------------------------------|--------|----------|-------|-----|-----------|----------|
| Methyl tert-butyl ether (MTBE) | 620 | 50 | µg/L | 50 | | 5/11/06 |
| Tert-butyl alcohol (TBA) | ND | 10 | µg/L | 1.0 | | 5/11/06 |
| Di-isopropyl ether (DIPE) | ND | 2.0 | µg/L | 1.0 | | 5/11/06 |
| Ethyl tert-butyl ether (ETBE) | ND | 4.0 | µg/L | 1.0 | | 5/11/06 |
| Benzene | ND | 0.50 | µg/L | 1.0 | | 5/11/06 |
| Tert-amyl methyl ether (TAME) | 25 | 1.0 | µg/L | 1.0 | | 5/11/06 |
| 1,2-Dichloroethane | ND | 1.0 | µg/L | 1.0 | | 5/11/06 |
| Toluene | ND | 0.50 | µg/L | 1.0 | | 5/11/06 |
| 1,2-Dibromoethane (EDB) | ND | 1.0 | µg/L | 1.0 | | 5/11/06 |
| Chlorobenzene | ND | 1.0 | µg/L | 1.0 | | 5/11/06 |
| Ethylbenzene | ND | 0.50 | µg/L | 1.0 | | 5/11/06 |
| m,p-Xylene | ND | 0.50 | µg/L | 1.0 | | 5/11/06 |
| o-Xylene | ND | 0.50 | µg/L | 1.0 | | 5/11/06 |
| 1,3-Dichlorobenzene | ND | 1.0 | µg/L | 1.0 | | 5/11/06 |
| 1,4-Dichlorobenzene | ND | 1.0 | µg/L | 1.0 | | 5/11/06 |
| 1,2-Dichlorobenzene | ND | 1.0 | µg/L | 1.0 | | 5/11/06 |
| Surrogate: 1,4-Dichlorobenzene-d4 | 95.1 | 80.8-139 | % Rec | 1.0 | | 5/11/06 |

Test Name: TPH as Gasoline

Reference: LUFT/EPA 8260B Modified

| Parameter | Result | Limit | Units | DF | Extracted | Analyzed |
|---------------|--------|-------|-------|-----|-----------|----------|
| TPHC Gasoline | 670 | 50 | µg/L | 1.0 | | 5/11/06 |

Date: 30-May-06
WorkOrder: 0605036

ANALYTICAL REPORT

Client Sample ID: 4563-MW17S-W

Received: 5/2/06

Collected: 5/2/06 0:00

Lab ID: 0605036-16A Matrix: Groundwater

Test Name: Gasoline Components/Additives

Reference: LUFT/EPA 8260B Modified

| Parameter | Result | Limit | Units | DF | Extracted | Analyzed |
|-----------------------------------|--------|----------|-------|-----|-----------|----------|
| Methyl tert-butyl ether (MTBE) | 340 | 50 | µg/L | 50 | | 5/12/06 |
| Tert-butyl alcohol (TBA) | 77 | 10 | µg/L | 1.0 | | 5/11/06 |
| Di-isopropyl ether (DIPE) | ND | 3.0 | µg/L | 1.0 | | 5/11/06 |
| Ethyl tert-butyl ether (ETBE) | ND | 4.0 | µg/L | 1.0 | | 5/11/06 |
| Benzene | ND | 0.50 | µg/L | 1.0 | | 5/11/06 |
| Tert-amyl methyl ether (TAME) | 2.8 | 1.0 | µg/L | 1.0 | | 5/11/06 |
| 1,2-Dichloroethane | ND | 1.0 | µg/L | 1.0 | | 5/11/06 |
| Toluene | ND | 0.50 | µg/L | 1.0 | | 5/11/06 |
| 1,2-Dibromoethane (EDB) | ND | 1.0 | µg/L | 1.0 | | 5/11/06 |
| Chlorobenzene | ND | 1.0 | µg/L | 1.0 | | 5/11/06 |
| Ethylbenzene | ND | 0.50 | µg/L | 1.0 | | 5/11/06 |
| m,p-Xylene | ND | 0.50 | µg/L | 1.0 | | 5/11/06 |
| o-Xylene | ND | 0.50 | µg/L | 1.0 | | 5/11/06 |
| 1,3-Dichlorobenzene | ND | 1.0 | µg/L | 1.0 | | 5/11/06 |
| 1,4-Dichlorobenzene | ND | 1.0 | µg/L | 1.0 | | 5/11/06 |
| 1,2-Dichlorobenzene | ND | 1.0 | µg/L | 1.0 | | 5/11/06 |
| Surrogate: 1,4-Dichlorobenzene-d4 | 95.6 | 80.8-139 | % Rec | 1.0 | | 5/11/06 |

Test Name: TPH as Gasoline

Reference: LUFT/EPA 8260B Modified

| Parameter | Result | Limit | Units | DF | Extracted | Analyzed |
|---------------|--------|-------|-------|-----|-----------|----------|
| TPHC Gasoline | 410 | 50 | µg/L | 1.0 | | 5/11/06 |

Date: 30-May-06
WorkOrder: 0605036

ANALYTICAL REPORT

Client Sample ID: 4563-MW17D-W

Received: 5/2/06

Collected: 5/2/06 0:00

Lab ID: 0605036-17A Matrix: Groundwater

Test Name: Gasoline Components/Additives

Reference: LUFT/EPA 8260B Modified

| Parameter | Result | Limit | Units | DF | Extracted | Analyzed |
|-----------------------------------|--------|----------|-------|-----|-----------|----------|
| Methyl tert-butyl ether (MTBE) | 7.0 | 1.0 | µg/L | 1.0 | | 5/11/06 |
| Tert-butyl alcohol (TBA) | ND | 10 | µg/L | 1.0 | | 5/11/06 |
| Di-isopropyl ether (DIPE) | ND | 1.0 | µg/L | 1.0 | | 5/11/06 |
| Ethyl tert-butyl ether (ETBE) | ND | 1.0 | µg/L | 1.0 | | 5/11/06 |
| Benzene | ND | 0.50 | µg/L | 1.0 | | 5/11/06 |
| Tert-amyl methyl ether (TAME) | ND | 1.0 | µg/L | 1.0 | | 5/11/06 |
| 1,2-Dichloroethane | ND | 1.0 | µg/L | 1.0 | | 5/11/06 |
| Toluene | ND | 0.50 | µg/L | 1.0 | | 5/11/06 |
| 1,2-Dibromoethane (EDB) | ND | 1.0 | µg/L | 1.0 | | 5/11/06 |
| Chlorobenzene | ND | 1.0 | µg/L | 1.0 | | 5/11/06 |
| Ethylbenzene | ND | 0.50 | µg/L | 1.0 | | 5/11/06 |
| m,p-Xylene | ND | 0.50 | µg/L | 1.0 | | 5/11/06 |
| o-Xylene | ND | 0.50 | µg/L | 1.0 | | 5/11/06 |
| 1,3-Dichlorobenzene | ND | 1.0 | µg/L | 1.0 | | 5/11/06 |
| 1,4-Dichlorobenzene | ND | 1.0 | µg/L | 1.0 | | 5/11/06 |
| 1,2-Dichlorobenzene | ND | 1.0 | µg/L | 1.0 | | 5/11/06 |
| Surrogate: 1,4-Dichlorobenzene-d4 | 95.5 | 80.8-139 | % Rec | 1.0 | | 5/11/06 |

Test Name: TPH as Gasoline

Reference: LUFT/EPA 8260B Modified

| Parameter | Result | Limit | Units | DF | Extracted | Analyzed |
|---------------|--------|-------|-------|-----|-----------|----------|
| TPHC Gasoline | 80 | 50 | µg/L | 1.0 | | 5/11/06 |

Date: 30-May-06
WorkOrder: 0605036

ANALYTICAL REPORT

Client Sample ID: 4563-QCTB-W

Received: 5/2/06

Collected: 5/2/06 0:00

Lab ID: 0605036-18A

Matrix: Groundwater

Test Name: Gasoline Components/Additives

Reference: LUFT/EPA 8260B Modified

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|-----------------------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| Methyl tert-butyl ether (MTBE) | ND | 1.0 | µg/L | 1.0 | | 5/10/06 |
| Tert-butyl alcohol (TBA) | ND | 10 | µg/L | 1.0 | | 5/10/06 |
| Di-isopropyl ether (DIPE) | ND | 1.0 | µg/L | 1.0 | | 5/10/06 |
| Ethyl tert-butyl ether (ETBE) | ND | 1.0 | µg/L | 1.0 | | 5/10/06 |
| Benzene | ND | 0.50 | µg/L | 1.0 | | 5/10/06 |
| Tert-amyl methyl ether (TAME) | ND | 1.0 | µg/L | 1.0 | | 5/10/06 |
| 1,2-Dichloroethane | ND | 1.0 | µg/L | 1.0 | | 5/10/06 |
| Toluene | ND | 0.50 | µg/L | 1.0 | | 5/10/06 |
| 1,2-Dibromoethane (EDB) | ND | 1.0 | µg/L | 1.0 | | 5/10/06 |
| Chlorobenzene | ND | 1.0 | µg/L | 1.0 | | 5/10/06 |
| Ethylbenzene | ND | 0.50 | µg/L | 1.0 | | 5/10/06 |
| m,p-Xylene | ND | 0.50 | µg/L | 1.0 | | 5/10/06 |
| o-Xylene | ND | 0.50 | µg/L | 1.0 | | 5/10/06 |
| 1,3-Dichlorobenzene | ND | 1.0 | µg/L | 1.0 | | 5/10/06 |
| 1,4-Dichlorobenzene | ND | 1.0 | µg/L | 1.0 | | 5/10/06 |
| 1,2-Dichlorobenzene | ND | 1.0 | µg/L | 1.0 | | 5/10/06 |
| Surrogate: 1,4-Dichlorobenzene-d4 | 95.1 | 80.8-139 | % Rec | 1.0 | | 5/10/06 |

Test Name: TPH as Gasoline

Reference: LUFT/EPA 8260B Modified

| <u>Parameter</u> | <u>Result</u> | <u>Limit</u> | <u>Units</u> | <u>DF</u> | <u>Extracted</u> | <u>Analyzed</u> |
|------------------|---------------|--------------|--------------|-----------|------------------|-----------------|
| TPHC Gasoline | ND | 50 | µg/L | 1.0 | | 5/10/06 |

North Coast Laboratories, Ltd.

Date: 30-May-06

CLIENT: LACO Associates
Work Order: 0605036
Project: 4563.03 FORTUNA SHELL**QC SUMMARY REPORT**

Method Blank

| Sample ID | MB-5/10/06 | Batch ID: | R41250 | Test Code: | 8260OXYW | Units: µg/L | Analysis Date | 5/10/06 3:12:00 AM | Prep Date | | | |
|--------------------------------|------------|-----------|---|------------|-------------|-------------|---------------|--------------------|-------------|------|----------|------|
| Client ID: | | Run ID: | ORGCMS3_060510B <th>SeqNo:</th> <td>592040</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> | SeqNo: | 592040 | | | | | | | |
| Analyte | | Result | Limit | SPK value | SPK Ref Val | % Rec | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Methyl tert-butyl ether (MTBE) | ND | 1.0 | | | | | | | | | | |
| Tertert-butyl alcohol (TBA) | ND | 10 | | | | | | | | | | |
| Di-isopropyl ether (DIPE) | ND | 1.0 | | | | | | | | | | |
| Ethyl tert-butyl ether (ETBE) | ND | 1.0 | | | | | | | | | | |
| Benzene | ND | 0.50 | | | | | | | | | | |
| Tert-amyl methyl ether (TAME) | ND | 1.0 | | | | | | | | | | |
| 1,2-Dichloroethane | ND | 1.0 | | | | | | | | | | |
| Toluene | ND | 0.50 | | | | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 1.0 | | | | | | | | | | |
| Chlorobenzene | ND | 1.0 | | | | | | | | | | |
| Ethylbenzene | ND | 0.50 | | | | | | | | | | |
| m,p-Xylene | ND | 0.50 | | | | | | | | | | |
| o-Xylene | ND | 0.50 | | | | | | | | | | |
| 1,3-Dichlorobenzene | 0.1008 | 1.0 | | | | | | | | | | |
| 1,4-Dichlorobenzene | ND | 1.0 | | | | | | | | | | |
| 1,2-Dichlorobenzene | ND | 1.0 | | | | | | | | | | |
| 1,4-Dichlorobenzene-d4 | 0.952 | 0.10 | 1.00 | 0 | 95.2% | 81 | 139 | 0 | | | | |
| Sample ID | MB-5/10/06 | Batch ID: | R41249 | Test Code: | GASW-MS | Units: µg/L | Analysis Date | 5/10/06 3:12:00 AM | Prep Date | | | |
| Client ID: | | Run ID: | ORGCMS3_060510A <th>SeqNo:</th> <td>592016</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> | SeqNo: | 592016 | | | | | | | |
| Analyte | | Result | Limit | SPK value | SPK Ref Val | % Rec | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| TPHC Gasoline | | 24.77 | 50 | | | | | | | | | J |

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

QC SUMMARY REPORT

Method Blank

CLIENT: LACO Associates
Work Order: 0605036
Project: 4563.03 FORTUNA SHELL

| Sample ID | Batch ID | Test Code | Units: | Analysis Date | Prep Date |
|-----------------------|----------|-----------|---------------|--------------------|--|
| MB-15674 | 15674 | SGTPDMW | µg/L | 5/26/06 2:42:06 PM | 5/10/06 |
| Client ID: | | Run ID: | ORGCT_060526A | SeqNo: | 595851 |
| Analyte | Result | Limit | SPK value | % Rec | LowLimit HighLimit RPD Ref Val %RPD RPD Limit Qual |
| TPHC Diesel (C12-C22) | 46.67 | 50 | | | J |
| TPHC Motor Oil | 34.45 | 170 | | | J |
| Sample ID | Batch ID | Test Code | Units: | Analysis Date | Prep Date |
| MB-15650 | 15650 | TPHDMW | µg/L | 5/5/06 9:00:06 PM | 5/5/06 |
| Client ID: | | Run ID: | ORGCT_060505B | SeqNo: | 590855 |
| Analyte | Result | Limit | SPK value | % Rec | LowLimit HighLimit RPD Ref Val %RPD RPD Limit Qual |
| TPHC Diesel (C12-C22) | ND | 50 | | | |
| TPHC Motor Oil | 52.70 | 170 | | | J |

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

North Coast Laboratories, Ltd.

Date: 30-May-06

QC SUMMARY REPORT

Laboratory Control Spike

CLIENT: LACO Associates
Work Order: 0605036
Project: 4563.03 FORTUNA SHELL

| Sample ID | LCS-06283 | Batch ID: | R41250 | Test Code: | 8260OXYW | Units: µg/L | | | | Analysis Date | 5/10/06 12:39:00 PM | Prep Date | |
|--------------------------------|-----------|-----------|---|------------|-------------|-------------|-------|----------|-----------|---------------|---------------------|-----------|------|
| Client ID: | | Run ID: | ORGCMS3_060510B <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>SeqNo:</th> <td>592038</td> <th></th> | | | | | | | SeqNo: | 592038 | | |
| Analyte | | Result | Limit | SPK value | SPK Ref Val | | % Rec | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Methyl tert-butyl ether (MTBE) | 18.89 | 1.0 | 20.0 | 0 | 0 | 94.4% | 80 | 120 | 120 | 0 | 0 | 0 | |
| Tertert-butyl alcohol (TBA) | 397.7 | 10 | 400 | 0 | 0 | 99.4% | 25 | 162 | 162 | 0 | 0 | 0 | |
| Di-isopropyl ether (DIPE) | 19.31 | 1.0 | 20.0 | 0 | 0 | 96.6% | 80 | 120 | 120 | 0 | 0 | 0 | |
| Ethyl tert-butyl ether (ETBE) | 18.86 | 1.0 | 20.0 | 0 | 0 | 94.3% | 77 | 120 | 120 | 0 | 0 | 0 | |
| Benzene | 19.85 | 0.50 | 20.0 | 0 | 0 | 99.2% | 78 | 117 | 117 | 0 | 0 | 0 | |
| Tert-amyl methyl ether (TAME) | 20.68 | 1.0 | 20.0 | 0 | 0 | 103% | 64 | 136 | 136 | 0 | 0 | 0 | |
| 1,2-Dichloroethane | 20.41 | 1.0 | 20.0 | 0 | 0 | 102% | 74 | 121 | 121 | 0 | 0 | 0 | |
| Toluene | 20.05 | 0.50 | 20.0 | 0 | 0 | 100% | 80 | 120 | 120 | 0 | 0 | 0 | |
| 1,2-Dibromoethane (EDB) | 19.44 | 1.0 | 20.0 | 0 | 0 | 97.2% | 80 | 120 | 120 | 0 | 0 | 0 | |
| Chlorobenzene | 20.34 | 1.0 | 20.0 | 0 | 0 | 102% | 80 | 120 | 120 | 0 | 0 | 0 | |
| Ethylbenzene | 18.93 | 0.50 | 20.0 | 0 | 0 | 94.7% | 80 | 120 | 120 | 0 | 0 | 0 | |
| m,p-Xylene | 39.77 | 0.50 | 40.0 | 0 | 0 | 99.4% | 80 | 120 | 120 | 0 | 0 | 0 | |
| o-Xylene | 21.54 | 0.50 | 20.0 | 0 | 0 | 108% | 80 | 120 | 120 | 0 | 0 | 0 | |
| 1,3-Dichlorobenzene | 21.01 | 1.0 | 20.0 | 0 | 0 | 105% | 81 | 125 | 125 | 0 | 0 | 0 | |
| 1,4-Dichlorobenzene | 20.83 | 1.0 | 20.0 | 0 | 0 | 104% | 79 | 132 | 132 | 0 | 0 | 0 | |
| 1,2-Dichlorobenzene | 20.57 | 1.0 | 20.0 | 0 | 0 | 103% | 81 | 134 | 134 | 0 | 0 | 0 | |
| 1,4-Dichlorobenzene-d4 | 1.01 | 0.10 | 1.00 | 0 | 0 | 101% | 81 | 139 | 139 | 0 | 0 | 0 | |

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

QC SUMMARY REPORT
Laboratory Control Spike Duplicate

| QC SUMMARY REPORT | | | | | | | | | | | | | | | |
|--------------------------------|-----------------|------------|------------------|-------------|---------|------------|-----------|-----------------------------------|---------|----------------|--------------------|------------|--|--|------------|
| Client ID: | LACO Associates | Sample ID: | LCSD-06283 | Batch ID: | R41250 | Test Code: | 8260OXYW | Units: | µg/L | Analysis Date: | 5/11/06 1:51:00 AM | Prep Date: | | | |
| Client ID: | 0605036 | Run ID: | ORGCMSS3_060510B | SeqNo: | 592056 | | | | | | | | | | |
| Analyte | Result | Limit | SPK value | SPK Ref Val | % Rec | LowLimit | HighLimit | RPD | Ref Val | % RPD | RPDLimit | Qual | | | |
| Methyl tert-butyl ether (MTBE) | 19.61 | 1.0 | 20.0 | 0 | 98.0% | 80 | 120 | 18.9 | 3.73% | 20 | | | | | |
| Tert-butyl alcohol (TBA) | 417.3 | 10 | 400 | 0 | 104% | 25 | 162 | 398 | 4.82% | 20 | | | | | |
| Di-isopropyl ether (DIPE) | 20.35 | 1.0 | 20.0 | 0 | 102% | 80 | 120 | 19.3 | 5.25% | 20 | | | | | |
| Ethyl tert-butyl ether (ETBE) | 19.36 | 1.0 | 20.0 | 0 | 96.8% | 77 | 120 | 18.9 | 2.62% | 20 | | | | | |
| Benzene | 20.76 | 0.50 | 20.0 | 0 | 104% | 78 | 117 | 19.8 | 4.48% | 20 | | | | | |
| Tert-amyl methyl ether (TAME) | 21.01 | 1.0 | 20.0 | 0 | 105% | 64 | 136 | 20.7 | 1.61% | 20 | | | | | |
| 1,2-Dichloroethane | 20.96 | 1.0 | 20.0 | 0 | 105% | 74 | 121 | 20.4 | 2.62% | 20 | | | | | |
| Toluene | 20.38 | 0.50 | 20.0 | 0 | 102% | 80 | 120 | 20.0 | 1.63% | 20 | | | | | |
| 1,2-Dibromoethane (EDB) | 19.80 | 1.0 | 20.0 | 0 | 99.0% | 80 | 120 | 19.4 | 1.86% | 20 | | | | | |
| Chlorobenzene | 20.62 | 1.0 | 20.0 | 0 | 103% | 80 | 120 | 20.3 | 1.35% | 20 | | | | | |
| Ethylbenzene | 19.28 | 0.50 | 20.0 | 0 | 96.4% | 80 | 120 | 18.9 | 1.83% | 20 | | | | | |
| m,p-Xylene | 39.88 | 0.50 | 40.0 | 0 | 99.7% | 80 | 120 | 39.8 | 0.265% | 20 | | | | | |
| o-Xylene | 21.89 | 0.50 | 20.0 | 0 | 109% | 80 | 120 | 21.5 | 1.59% | 20 | | | | | |
| 1,3-Dichlorobenzene | 20.81 | 1.0 | 20.0 | 0 | 104% | 81 | 125 | 21.0 | 0.969% | 20 | | | | | |
| 1,4-Dichlorobenzene | 20.89 | 1.0 | 20.0 | 0 | 104% | 79 | 132 | 20.8 | 0.307% | 20 | | | | | |
| 1,2-Dichlorobenzene | 20.60 | 1.0 | 20.0 | 0 | 103% | 81 | 134 | 20.6 | 0.143% | 20 | | | | | |
| 1,4-Dichlorobenzene-d4 | 1.02 | 0.10 | 1.00 | 0 | 103% | 81 | 139 | 1.01 | 1.84% | 20 | | | | | |
| Sample ID: | LCS-06284 | Batch ID: | R41249 | Test Code: | GASW-MS | Units: | µg/L | Analysis Date: 5/10/06 1:56:00 AM | | | | | | | Prep Date: |
| Client ID: | | Run ID: | ORGCMSS3_060510A | SeqNo: | 592014 | | | | | | | | | | |
| Analyte | Result | Limit | SPK value | SPK Ref Val | % Rec | LowLimit | HighLimit | RPD | Ref Val | % RPD | RPDLimit | Qual | | | |
| TPHC Gasoline | 924.4 | 50 | 1,000 | 0 | 92.4% | 80 | 120 | 0 | | | | | | | |
| Sample ID: | LCSD-06284 | Batch ID: | R41249 | Test Code: | GASW-MS | Units: | µg/L | Analysis Date: 5/11/06 2:17:00 AM | | | | | | | Prep Date: |
| Client ID: | | Run ID: | ORGCMSS3_060510A | SeqNo: | 592030 | | | | | | | | | | |
| Analyte | Result | Limit | SPK value | SPK Ref Val | % Rec | LowLimit | HighLimit | RPD | Ref Val | % RPD | RPDLimit | Qual | | | |
| TPHC Gasoline | 844.9 | 50 | 1,000 | 0 | 84.5% | 80 | 120 | 924 | 8.99% | 20 | | | | | |

J - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

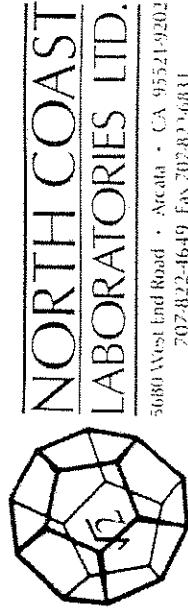
QC SUMMARY REPORT
Laboratory Control Spike

| Client ID: | Sample ID | Batch ID: | Test Code: | Units: | Analysis Date | Prep Date | | | | | |
|------------|-----------------------|-----------|---------------|-------------|---------------|-----------|-------------|-------|----------|------|--------|
| Client ID: | | | Run ID: | SPK Ref Val | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Analyte | TPHC Diesel (C12-C22) | 15674 | SGTPDMW | µg/L | | | | | | | |
| | TPHC Motor Oil | | ORGC7_060526A | | 50 | 500 | 0 | 81.7% | 46 | 91 | 0 |
| | TPHC Diesel (C12-C22) | 15674 | SGTPDMW | µg/L | | | | | | | |
| | TPHC Motor Oil | | ORGC7_060526A | | 408.7 | 500 | 0 | 89.9% | 48 | 113 | 0 |
| Analyte | TPHC Diesel (C12-C22) | 15674 | TPHDMW | µg/L | | | | | | | |
| | TPHC Motor Oil | | ORGC7_060505B | | 407.1 | 500 | 0 | 81.4% | 46 | 91 | 0.399% |
| | TPHC Diesel (C12-C22) | 15650 | TPHDMW | µg/L | | | | | | | |
| | TPHC Motor Oil | | ORGC7_060505B | | 876.4 | 1,000 | 0 | 87.6% | 48 | 113 | 2.53% |
| Analyte | TPHC Diesel (C12-C22) | 15650 | TPHDMW | µg/L | | | | | | | |
| | TPHC Motor Oil | | ORGC7_060505B | | 349.4 | 500 | 0 | 69.9% | 72 | 124 | 15 |
| | TPHC Diesel (C12-C22) | 15650 | TPHDMW | µg/L | | | | | | | |
| | TPHC Motor Oil | | ORGC7_060505B | | 977.2 | 1,000 | 0 | 97.7% | 71 | 139 | 0 |
| Analyte | TPHC Diesel (C12-C22) | 15650 | TPHDMW | µg/L | | | | | | | |
| | TPHC Motor Oil | | ORGC7_060505B | | 373.3 | 500 | 0 | 74.7% | 72 | 124 | 6.59% |
| | TPHC Diesel (C12-C22) | | | | 1,117 | 1,000 | 0 | 112% | 71 | 139 | 13.3% |
| | TPHC Motor Oil | | | | | | | | | | |

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank



**NORTH COAST
LABORATORIES LTD.**

5630 West End Road • Arcata • CA 95521-9202
707.822.4649 Fax 707.822.6831

Chain of Custody

Attention: Accounts Payable
Results & Invoice to: Laco Associates
Address: 21 W. 4th St. Eureka CA 95501

Phone: _____
Copies of Report to: LACO ; Chris Watt
Stu D

Sampler (Sign & Print): *Stu D*

PROJECT INFORMATION

Project Number: 4563.03
Project Name: FORTUNA SHELL
Purchase Order Number: task 30339

| CONTAINER | PRESERVATIVE | AMOUNTS | TPHd/mo w/SQC |
|-----------|--------------|---------|---------------|
| 6 | 7 | | |
| 8 | 9 | | |
| 10 | 11 | | |
| 12 | 13 | | |
| 14 | | | |

| | |
|---|--|
| LABORATORY NUMBER: 0105030 | |
| TAT: <input type="checkbox"/> 24 Hr <input checked="" type="checkbox"/> 48 Hr <input type="checkbox"/> 5 Day <input type="checkbox"/> 5-7 Day | STD (2-3 Wk) <input type="checkbox"/> Other: _____ |
| PRIOR AUTHORIZATION IS REQUIRED FOR RUSHES | |
| REPORTING REQUIREMENTS: State Forms <input type="checkbox"/> | |
| Preliminary: <input checked="" type="checkbox"/> Verbal <input type="checkbox"/> By: _____ | Final Report: <input type="checkbox"/> Verbal <input type="checkbox"/> By: _____ |
| CONTAINER CODES: 1—1/2 gal. pt; 2—250 ml pt; 3—500 ml pt; 4—1 L Naugen; 5—250 ml BG; 6—500 ml BG; 7—1 L BG; 8—1 L CG; 9—40 ml VOA; 10—125 ml VOA; 11—4 oz glass jar; 12—8 oz glass jar; 13—brass tube; 14—other | |
| PRESERVATIVE CODES: a—HNO ₃ ; b—HCl; c—H ₂ SO ₄ ; d—Na ₂ S ₂ O ₃ ; e—NaOH; f—C ₂ H ₅ COCl; g—other | |
| SAMPLE CONDITION/SPECIAL INSTRUCTIONS GEOTRACKER | |
| <i>collected at</i> | |

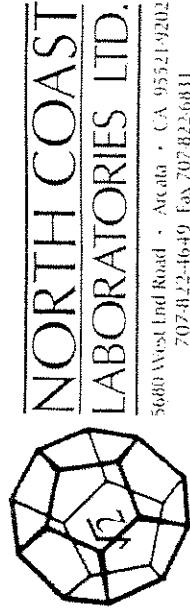
| LAB ID | SAMPLE ID | DATE | TIME | MATRIX* |
|-------------|-----------|--------|------|---------|
| 4563-MW1-W | | 5/2-06 | AM | GW |
| 4563-MW2-W | | | | |
| 4563-MW3-W | | | | |
| 4563-MW4-W | | | | |
| 4563-MW5-W | | | | |
| 4563-MW6-W | | | | |
| 4563-MW7-W | | | | |
| 4563-MW8-W | | | | |
| 4563-MW9-W | | | | |
| 4563-MW10-W | | | PM | |

| | | | |
|--------------------------------|--------------------|--------------------|-------------|
| RELINQUISHED BY (Sign & Print) | DATE/TIME | RECEIVED BY (Sign) | DATE/TIME |
| <i>Stu D</i> | STEVE DAVIS 5-2-06 | <i>Beth C</i> | 1630 5/2/06 |
| | 1630 | | |
| | | | |
| | | | |
| | | | |

| | | | | |
|---|---------------------------------|---------------------------------|------------------------------|-------------------------------|
| SAMPLE DISPOSAL | | | | |
| <input type="checkbox"/> NCL Disposal of Non-Contaminated | <input type="checkbox"/> Pickup | | | |
| <input type="checkbox"/> Return | | | | |
| CHAIN OF CUSTODY SEALS Y/N/NA | | | | |
| <input type="checkbox"/> UPS | <input type="checkbox"/> Air-Ex | <input type="checkbox"/> Fed-Ex | <input type="checkbox"/> Bus | <input type="checkbox"/> Hand |

*MATRIX: DW=Drinking Water; Eff=Effluent; Inf=Influent; SW=Surface Water; GW=Ground Water; S=Soil; O=Other.

ALL CONTAMINATED NON-AQUEOUS SAMPLES WILL BE RETURNED TO CLIENT



NORTH COAST LABORATORIES LTD.

5680 West End Road • Arcata • CA 95521-9202
707-422-4649 Fax 707-822-6831

Chain of Custody

LABORATORY NUMBER: 0605036

| | |
|----------------------------|-------------------------------|
| Attention: | Accounts Payable |
| Results & Invoice To: | Laco Associates |
| Address: | 21 W. 4th St. Eureka CA 95501 |
| Phone: | |
| Copies of Report to: | LACO ; Chris Watt |
| Sampler (Sign & Print): | <u>Steff</u> |
| PROJECT INFORMATION | |
| Project Number: | 4563.03 |
| Project Name: | FORTUNA SHELL |
| Purchase Order Number: | TASK 3039 |

| | | |
|---|------------|---------------|
| ANALYSIS | 8260 Lst 5 | TPhd/mo w/SGC |
| CONTAINER PRESERVATIVE | 6 | 7 |
| 3—500 ml ph; 4—1 l NaGene; 5—250 ml BG; 6—500 ml BG; 7—1 l BG; 8—1 l cg; 9—40 ml VOA; 10—125 ml VOA; 11—4 oz glass jar; 12—8 oz glass jar; 13—brass tube; 14—other | | |

| | | | | | | | | |
|--------------------------------|-------------|-----------|--------|--------------------|-----------|-----------|---------|---|
| RElinquished By (Sign & Print) | STEVE DAVIS | DATE/TIME | 5-2-06 | RECEIVED BY (Sign) | Roll Cnfg | DATE/TIME | 5/16/06 | SAMPLE DISPOSAL |
| | | | 1630 | | | | | ✓ NCL Disposal of Non-Contaminated █ Return █ Pickup |
| | | | | | | | | CHAIN OF CUSTODY SEALS Y/N/NA |
| | | | | | | | | SHIPPED VIA: UPS Air-Ex Fed-Ex Bus Hand |

*MATRIX: DW=Drinking Water; Eff=Effluent; Inf=Influent; SW=Surface Water; GW=Ground Water; S=Soil; O=Other.

ALL CONTAMINATED NON-AQUEOUS SAMPLES WILL BE RETURNED TO CLIENT

| | | | | |
|---|--|---------------------------------|--------------------------------|----------------------------------|
| TAT: | <input type="checkbox"/> 24 Hr | <input type="checkbox"/> 48 Hr | <input type="checkbox"/> 5 Day | <input type="checkbox"/> 5-7 Day |
| ✓ STD (2-3 Wk) | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| PRIOR AUTHORIZATION IS REQUIRED FOR RUSHES | | | | |
| REPORTING REQUIREMENTS: State Forms | | | | |
| Preliminary: | <input checked="" type="checkbox"/> Verbal | <input type="checkbox"/> BY | <input type="checkbox"/> | <input type="checkbox"/> |
| Final Report: | <input type="checkbox"/> FAX | <input type="checkbox"/> Verbal | <input type="checkbox"/> BY | <input type="checkbox"/> |
| CONTAINER CODES: 1—1/2 gal. pt; 2—250 ml pt; 3—500 ml pt; 4—1 l NaGene; 5—250 ml BG; 6—500 ml BG; 7—1 l BG; 8—1 l cg; 9—40 ml VOA; 10—125 ml VOA; 11—4 oz glass jar; 12—8 oz glass jar; 13—brass tube; 14—other | | | | |
| PRESERVATIVE CODES: a—HNO ₃ ; b—HCl; c—H ₂ SO ₄ ; d—Na ₂ S ₂ O ₃ ; e—NaOH; f—C ₂ H ₅ O ₂ Cl; g—other | | | | |

Attachment 4

ATTACHMENT 4: SOIL ANALYTICAL RESULTS

Fortuna Shell, 809 Main St, Fortuna, CA

LACO No. 4563.03; LOP No. 12672

| Sample Location | Sample Depth (feet) | Sample Date | TPHg ($\mu\text{g/g}$) | TPHd ($\mu\text{g/g}$) | TPHmo ($\mu\text{g/g}$) | Benzene ($\mu\text{g/g}$) | Toluene ($\mu\text{g/g}$) | Ethylben-zene ($\mu\text{g/g}$) | Xylenes ($\mu\text{g/g}$) | Fuel Oxygenates ($\mu\text{g/g}$) | Lead Scavengers ($\mu\text{g/g}$) |
|--------------------------------------|---------------------|-------------|--------------------------|--------------------------|---------------------------|-----------------------------|-----------------------------|-----------------------------------|-----------------------------|-------------------------------------|-------------------------------------|
| Pre-UST Closure Investigation | | | | | | | | | | | |
| 4563-B1 | 5 | 8/10/1998 | 3.5 | 50 | --- | 0.25 | ND<0.4 | ND<0.2 | ND<0.2 | MTBE=0.94 | --- |
| | 10 | 8/10/1998 | 8.4 | ND<1.0 | --- | 0.011 | ND<0.04 | ND<0.06 | ND<0.06 | MTBE=0.069 | --- |
| 4563-B2 | 5 | 8/10/1998 | 520 | 38 | --- | ND<1.5 | ND<4.0 | ND<8.0 | ND<8.0 | MTBE=0.74 | --- |
| | 10 | 8/10/1998 | 6.9 | ND<1.0 | --- | ND<0.03 | ND<0.04 | ND<0.06 | ND<0.06 | MTBE=0.065 | --- |
| 4563-B3 | 5 | 8/10/1998 | 400 | 59 | --- | ND<1.0 | 0.3 | ND<3.0 | ND<7.0 | MTBE=0.83 | --- |
| | 10 | 8/10/1998 | ND<1.0 | ND<1.0 | --- | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.050 | --- |
| 4563-B4 | 5 | 8/10/1998 | 44 | 1.3 | --- | ND<0.07 | ND<0.2 | ND<0.32 | ND<0.32 | MTBE=0.088 | --- |
| | 10 | 8/10/1998 | ND<1.0 | ND<1.0 | --- | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.005 | MTBE=0.054 | --- |
| 4563-B5 | 5 | 8/10/1998 | ND<1.0 | ND<1.0 | --- | ND<0.005 | ND<0.005 | ND<0.16 | ND<0.16 | ND<0.050 | --- |
| | 10 | 8/10/1998 | ND<1.0 | ND<1.0 | --- | ND<0.005 | ND<0.005 | ND<0.050 | ND<0.050 | ND<0.050 | --- |
| 4563-B6 | 5 | 8/10/1998 | 16 | 3.2 | --- | ND<0.04 | ND<0.04 | ND<0.20 | ND<0.20 | MTBE=0.085 | --- |
| | 10 | 8/10/1998 | 8.4 | 6.2 | --- | ND<0.02 | ND<0.10 | ND<0.10 | ND<0.10 | MTBE=0.092 | --- |
| 4563-B7 | 5 | 8/11/1998 | 230 | 12 | --- | 0.62 | ND<2.0 | ND<2.0 | ND<2.0 | MTBE=1.1 | --- |
| | 10 | 8/11/1998 | 3.4 | ND<1.0 | --- | 0.016 | ND<0.02 | ND<0.04 | ND<0.04 | MTBE=0.11 | --- |
| AUGER | 10 | 8/11/1998 | 1,400 | 28 | --- | 3.0 | ND<12 | 17 | 94 | ND<10 | --- |
| 4563-B9 | 5 | 8/11/1998 | 1.4 | ND<1.0 | --- | 0.025 | ND<0.005 | ND<0.005 | ND<0.005 | MTBE=0.085 | --- |
| | 10 | 8/11/1998 | 10 | ND<1.0 | --- | ND<0.04 | ND<0.08 | ND<0.08 | ND<0.08 | MTBE=0.14 | --- |
| 4563-B10 | 5 | 8/11/1998 | 520 | 51 | --- | 1.1 | ND<5.0 | ND<5.0 | ND<2.0 | MTBE=2.9 | --- |
| | 10 | 8/11/1998 | 7.8 | ND<1.0 | --- | ND<0.04 | ND<0.08 | 0.07 | 0.09 | MTBE=0.39 | --- |
| 4563-B11 | 5 | 8/11/1998 | 1,000 | 27 | --- | 2.7 | ND<20 | ND<10 | ND<10 | MTBE=7.3 | --- |
| | 10 | 8/11/1998 | 33 | 1.2 | --- | 0.082 | ND<0.5 | 0.24 | 0.34 | MTBE=0.78 | --- |
| UST Closure | | | | | | | | | | | |
| 4563#1 | 9' | 11/11/1998 | 160 | 1.4 | 18 | ND<0.050 | ND<0.050 | 0.4 | 0.39 | ND<0.50 | --- |
| 4563#2 | 9' | 11/11/1998 | 340 | 3.9 | 20 | ND<0.050 | ND<0.40 | 1.8 | 1.3 | MTBE= 0.8 | --- |
| 4563#3 | 9' | 11/11/1998 | 16 | 55 | 320 | ND<0.0050 | ND<0.020 | 0.839 | 0.039 | MTBE= 0.065 | --- |
| 4563#4 | 9' | 11/11/1998 | 630 | --- | --- | 150 | ND<0.025 | 690 | 450 | MTBE= 51 | --- |
| 4563#5 | 3' | 11/11/1998 | 2.5 | ND<1.0 | ND<10 | 0.092 | 0.0079 | 0.014 | 0.038 | MTBE= 0.021 | --- |
| 4563#6 | 3' | 11/11/1998 | 34 | ND<1.0 | 10 | 0.7 | 0.23 | 0.59 | 0.67 | MTBE= 3.5 | --- |
| 4563#7 | 3' | 11/11/1998 | 62 | 3.5 | ND<10 | 0.2 | ND<0.20 | ND<0.40 | ND<0.40 | MTBE= 0.82 | --- |
| 4563#8 | 3' | 11/11/1998 | 9.8 | 2.9 | 35 | 0.14 | 0.094 | 0.064 | 0.12 | ND<0.50 | --- |
| 4563#9 | 3' | 11/11/1998 | 1.7 | ND<1.0 | ND<10 | 0.061 | ND<0.0050 | 0.0065 | 0.018 | TBA=0.01 | --- |
| 4563#10 | 3' | 11/11/1998 | ND<1.0 | ND<1.0 | ND<10 | ND<0.0050 | ND<0.0050 | ND<0.0050 | ND<0.0050 | ND<0.50 | --- |
| 2000 Investigation | | | | | | | | | | | |
| MW 1 | 5.0' | 7/25/2000 | 3.6 | ND<1.0 | ND<10.0 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.02 |
| | 9.0' | 7/25/2000 | ND<1000.0 | ND<1.0 | ND<10.0 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.005 | MTBE = 0.0058 | ND<0.02 |
| | 10.0' | 7/25/2000 | ND<1000.0 | ND<1.0 | ND<10.0 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.005 | MTBE = 0.0066 | ND<0.02 |
| MW 2 | 5.0' | 7/25/2000 | 96 | 10 | ND<10.0 | ND<0.016 | ND<0.016 | ND<0.016 | ND<0.016 | ND<0.016 | ND<0.04 |
| | 7.0' | 7/25/2000 | 830 | 32 | 10 | ND<0.016 | ND<0.016 | 0.18 | 0.16 | ND<0.16 | ND<0.04 |
| | 10.0' | 7/25/2000 | ND<1000 | ND<1.0 | ND<10 | 0.0071 | ND<0.005 | ND<0.005 | ND<0.005 | MTBE = 0.0046 | ND<0.02 |
| MW 3 | 5.0' | 7/25/2000 | 110 | 13 | 47 | ND<0.04 | ND<0.04 | ND<0.04 | ND<0.04 | MTBE = 0.081 | ND<0.1 |
| | 10.0' | 7/25/2000 | ND<1000.0 | ND<1.0 | ND<10.0 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.005 | MTBE = 0.055 | ND<0.02 |
| | 12.0' | 7/25/2000 | ND<1.0 | ND<1.0 | ND<10.0 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.005 | MTBE = 0.13 | ND<0.02 |
| | 15.0' | 7/25/2000 | ND<1.0 | ND<1.0 | ND<10.0 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.005 | MTBE = 0.83 | ND<0.02 |
| MW 4 | 2.0' | 7/26/2000 | 4.8 | ND<1.0 | ND<10.0 | 0.042 | ND<0.005 | 0.012 | 0.0404 | MTBE = 0.018 | ND<0.02 |
| | 5.0' | 7/26/2000 | 4.9 | ND<1.0 | ND<10.0 | 0.059 | ND<0.005 | ND<0.005 | 0.013 | MTBE = 0.028 | ND<0.02 |
| | 7.0' | 7/26/2000 | 20 | 1.4 | ND<10.0 | 0.022 | ND<0.008 | 0.037 | 0.018 | MTBE = 0.013 | ND<0.02 |
| | 10.0' | 7/26/2000 | ND<1.0 | ND<1.0 | ND<10.0 | 0.016 | ND<0.005 | ND<0.005 | ND<0.005 | MTBE = 0.013 | ND<0.02 |
| MW 5 | 5.0' | 7/26/2000 | 1500 | 23 | 14 | 1.4 | 0.17 | 4.5 | 7.34 | MTBE = 0.35 | ND<0.4 |
| | 8.0' | 7/26/2000 | 670 | 10 | 22 | 0.67 | ND<0.8 | 5.5 | 2.69 | MTBE = 0.32 | ND<0.002 |
| | 10.0' | 7/26/2000 | 17 | 9.7 | 21 | 0.0089 | ND<0.005 | 0.0085 | 0.0058 | MTBE = 0.09 | ND<0.002 |
| | 15.0' | 7/26/2000 | ND<1.0 | ND<1.0 | ND<10.0 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.005 | MTBE = 0.75 | ND<0.002 |
| MW 6 | 15.0' | 7/26/2000 | 1.5 | ND<1.0 | ND<10.0 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.005 | MTBE = 0.019 | ND<0.002 |
| MW 7 | 5.0' | 7/27/2000 | 730 | 230 | 3100 | 2.4 | 0.56 | 1.8 | 19.58 | MTBE = 0.12 | ND<0.02 |
| | 10.0' | 7/27/2000 | ND<1.0 | ND<1.0 | ND<10.0 | 0.016 | ND<0.005 | ND<0.005 | 0.0053 | MTBE = 0.066 | ND<0.002 |
| | 14.0' | 7/27/2000 | ND<1.0 | ND<1.0 | ND<10.0 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.005 | MTBE = 0.013 | ND<0.002 |
| MW 8 | 2.0' | 7/27/2000 | 8.2 | ND<1.0 | ND<10.0 | 0.093 | ND<0.005 | 0.009 | 0.026 | MTBE = 0.2 | ND<0.002 |
| | 5.0' | 7/27/2000 | 1400 | 17 | 44 | 2.5 | 0.2 | 1.7 | 1.6 | MTBE = 1.1 | ND<0.4 |
| | 10.0' | 7/27/2000 | ND<1.0 | ND<1.0 | ND<10.0 | 0.0052 | ND<0.005 | ND<0.005 | ND<0.005 | MTBE = 0.5 | ND<0.002 |
| | 20.0' | 7/27/2000 | ND<1.0 | ND<1.0 | ND<10.0 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.005 | MTBE = 0.83 | ND<0.002 |
| B1-00 | 8.0' | 5/17/2000 | 1,400 | 100 | 610 | ND<2.0 | ND<8.0 | 10 | 25.0 | MTBE ND<5.0 | --- |
| | 10.0' | 5/17/2000 | ND<1.0 | ND<1.0 | ND<10 | 0.014 | ND<0.005 | ND<0.005 | 0.0066 | MTBE ND<0.05 | --- |
| | 17.0' | 5/17/2000 | ND<1.0 | ND<1.0 | ND<10 | ND<0.005 | 0.0055 | ND<0.005 | 0.0081 | MTBE = 0.16 | --- |
| | 24.0' | 5/17/2000 | ND<1.0 | ND<1.0 | ND<10 | ND<0.005 | ND<0.005 | ND<0.005 | 0.0062 | MTBE ND<0.05 | --- |
| | 27.0' | 5/17/2000 | ND<1.0 | ND<1.0 | ND<10 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.005 | MTBE ND<0.05 | --- |
| | 29.0' | 5/17/2000 | 1.0 | ND<1.0 | ND<10 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.005 | MTBE ND<0.05 | --- |
| | 34.0' | 5/17/2000 | ND<1.0 | ND<1.0 | ND<10 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.005 | MTBE ND<0.05 | --- |
| | 39 | 5/17/2000 | 1.7 | ND<1.0 | ND<10 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.005 | MTBE ND<0.05 | --- |

ATTACHMENT 4: SOIL ANALYTICAL RESULTS

 Fortuna Shell, 809 Main St, Fortuna, CA
 LACO No. 4563 03; LOP No. 12672

| Sample Location | Sample Depth (feet) | Sample Date | TPHg ($\mu\text{g/g}$) | TPHd ($\mu\text{g/g}$) | TPHmo ($\mu\text{g/g}$) | Benzene ($\mu\text{g/g}$) | Toluene ($\mu\text{g/g}$) | Ethylben-zene ($\mu\text{g/g}$) | Xylenes ($\mu\text{g/g}$) | Fuel Oxygenates ($\mu\text{g/g}$) | Lead Scavengers ($\mu\text{g/g}$) |
|--------------------------------------|---------------------|-------------|--------------------------|--------------------------|---------------------------|-----------------------------|-----------------------------|-----------------------------------|-----------------------------|---|-------------------------------------|
| 2000 Investigation, continued | | | | | | | | | | | |
| B2-00 | 3.0' | 5/18/2000 | 15 | 1.4 | ND<10 | 0.087 | ND<0.08 | ND<0.04 | ND<0.04 | MTBE = 0.22 | --- |
| | 9.0' | 5/18/2000 | 18 | ND<1.0 | ND<10 | ND<0.005 | ND<0.01 | ND<0.1 | ND<0.1 | MTBE = 0.065 | --- |
| | 14.0' | 5/18/2000 | ND<1.0 | ND<1.0 | ND<10 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.005 | MTBE ND<0.05 | --- |
| | 19.0' | 5/18/2000 | ND<1.0 | ND<1.0 | ND<10 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.005 | MTBE = .059 | --- |
| | 24.0' | 5/18/2000 | ND<1.0 | ND<10 | ND<0.07 | ND<0.005 | ND<0.005 | ND<0.01 | ND<0.01 | MTBE ND<0.05 | --- |
| B3-00 | 9.0' | 5/22/2000 | 9.4 | 170 | 1,100 | ND<0.005 | ND<0.01 | ND<0.08 | ND<0.08 | MTBE ND<0.05 | --- |
| | 14.0' | 5/22/2000 | 3.2 | 18 | 120 | ND<0.005 | ND<0.005 | ND<0.02 | ND<0.002 | MTBE ND<0.05 | --- |
| | 19.0' | 5/22/2000 | ND<1.0 | ND<1.0 | ND<10 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.005 | MTBE ND<0.05 | --- |
| B4-00 | 3.0' | 5/24/2000 | 12 | ND<1.0 | ND<10 | 0.099 | ND<0.1 | ND<0.06 | ND<0.06 | MTBE ND<0.05 | --- |
| | 6.0' | 5/24/2000 | ND<1.0 | ND<1.0 | ND<10 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.005 | MTBE ND<0.05 | --- |
| | 9.0' | 5/24/2000 | ND<1.0 | ND<1.0 | ND<10 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.005 | MTBE ND<0.05 | --- |
| | 14.0' | 5/24/2000 | 4.9 | ND<1.0 | ND<10 | 0.0057 | ND<0.03 | ND<0.03 | ND<0.03 | MTBE = 0.099 | --- |
| | 19.0' | 5/24/2000 | ND<1.0 | ND<10 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.005 | MTBE ND<0.05 | --- |
| B6-00 | 2.0' | 11/22/2000 | 1.6 | 1.1 | ND<10 | ND<0.005 | ND<0.005 | 0.005 | 0.014 | MTBE ND<0.05 | --- |
| | 7.0' | 11/22/2000 | 670 | 48 | 49 | 0.59 | ND<3.0 | ND<10 | ND<10 | MTBE ND<0.05 | --- |
| | 9.0' | 11/22/2000 | ND<1.0 | ND<1.0 | ND<10 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.005 | MTBE ND<0.05 | --- |
| B7-00 | 2.0' | 11/22/2000 | 8.3 | 1.8 | ND<10 | 0.0075 | ND<0.04 | ND<0.04 | 0.05 | MTBE ND<0.05 | --- |
| | 6.0' | 11/22/2000 | 4.2 | ND<1.0 | ND<10 | ND<0.005 | ND<0.005 | ND<0.02 | ND<0.02 | MTBE ND<0.05 | --- |
| | 9.0' | 11/22/2000 | ND<1.0 | ND<1.0 | ND<10 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.005 | MTBE= 0.37 | --- |
| B8-00 | 2.0' | 11/22/2000 | ND<1.0 | 1.3 | 19 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.005 | MTBE ND<0.05 | --- |
| | 5.0' | 11/22/2000 | 1.1 | 1.1 | 18 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.005 | MTBE ND<0.05 | --- |
| | 10.0' | 11/22/2000 | ND<1.0 | ND<1.0 | ND<10 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.005 | MTBE ND<0.05 | --- |
| | 15.0' | 11/22/2000 | ND<1.0 | ND<1.0 | ND<10 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.005 | MTBE ND<0.05 | --- |
| B9-00 | 2.0' | 11/22/2000 | 2.3 | ND<1.0 | ND<10 | ND<0.005 | ND<0.015 | ND<0.005 | ND<0.03 | MTBE ND<0.05 | --- |
| | 7.0' | 11/22/2000 | ND<1.0 | ND<1.0 | ND<10 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.005 | MTBE ND<0.05 | --- |
| | 10.0' | 11/22/2000 | ND<1.0 | ND<1.0 | ND<10 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.005 | MTBE ND<0.05 | --- |
| | 15.0' | 11/22/2000 | ND<1.0 | ND<1.0 | ND<10 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.005 | MTBE ND<0.05 | --- |
| B10-00 | 2.0' | 11/22/2000 | 2.3 | ND<1.0 | ND<10 | ND<0.005 | ND<0.01 | ND<0.005 | ND<0.03 | MTBE ND<0.05 | --- |
| | 5.0' | 11/22/2000 | ND<1.0 | ND<1.0 | 10 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.005 | MTBE ND<0.05 | --- |
| B11-00 | 4.5' | 11/27/2000 | ND<1.0 | ND<1.0 | ND<10 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.005 | MTBE ND<0.05 | --- |
| | 8.0' | 11/27/2000 | 6.2 | ND<1.0 | ND<10 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.07 | MTBE ND<0.05 | --- |
| | 10.0' | 11/27/2000 | ND<1.0 | 3.6 | 71 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.005 | MTBE ND<0.05 | --- |
| B12-00 | 4.5' | 11/27/2000 | ND<1.0 | ND<1.0 | ND<10 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.005 | MTBE ND<0.05 | --- |
| | 15.0' | 11/27/2000 | ND<1.0 | ND<1.0 | ND<10 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.005 | MTBE ND<0.05 | --- |
| B13-00 | 4.0' | 11/28/2000 | ND<1.0 | ND<1.0 | ND<10 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.005 | MTBE ND<0.05 | --- |
| | 7.0' | 11/28/2000 | 7.2 | 51 | 430 | ND<0.005 | ND<0.060 | ND<0.15 | ND<0.15 | MTBE ND<0.05 | --- |
| B14-00 | 4.0' | 11/28/2000 | ND<1.0 | ND<1.0 | ND<10 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.005 | MTBE ND<0.5 | --- |
| | 13.0' | 11/28/2000 | 4.7 | 1.3 | 42 | ND<0.005 | ND<0.005 | ND<0.04 | ND<0.04 | MTBE ND<0.05 | --- |
| B15-00 | 4.5' | 11/29/2000 | 1.8 | ND<1.0 | 30 | ND<0.005 | ND<0.005 | ND<0.02 | ND<0.02 | MTBE ND<0.05 | --- |
| | 7.0' | 11/29/2000 | 2.1 | 2.5 | 120 | ND<0.005 | ND<0.01 | ND<0.02 | ND<0.02 | MTBE ND<0.05 | --- |
| B16-00 | 5.0' | 12/18/2000 | ND<1.0 | ND<1.0 | ND<10 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.005 | MTBE ND<0.05 | --- |
| | 8.0' | 12/18/2000 | ND<1.0 | ND<1.0 | 20 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.005 | MTBE ND<0.05 | --- |
| B17-00 | 5.0' | 12/18/2000 | 1.1 | 3.2 | 17 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.005 | MTBE ND<0.05 | --- |
| | 15.0' | 12/18/2000 | ND<1.0 | ND<1.0 | ND<10 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.005 | MTBE ND<0.05 | --- |
| B18-00 | 5.0' | 12/19/2000 | ND<1.0 | ND<1.0 | ND<10 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.005 | MTBE ND<0.05 | --- |
| | 8.0' | 12/19/2000 | 1.9 | ND<1.0 | ND<10 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.005 | MTBE ND<0.05 | --- |
| | 12.0' | 12/19/2000 | 1.3 | ND<1.0 | ND<10 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.005 | MTBE ND<0.05 | --- |
| | 15.0' | 12/19/2000 | 1.5 | ND<1.0 | ND<10 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.005 | MTBE ND<0.05 | --- |
| B19-00 | 5.0' | 12/19/2000 | ND<1.0 | ND<1.0 | ND<10 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.005 | MTBE ND<0.05 | --- |
| | 10.0' | 12/19/2000 | ND<1.0 | ND<1.0 | ND<10 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.005 | MTBE ND<0.05 | --- |
| B20-00 | 5.0' | 12/20/2000 | ND<1.0 | ND<1.0 | 12 | ND<0.005 | ND<0.005 | ND<0.005 | ND<0.005 | MTBE ND<0.05 | --- |
| | 7.0' | 12/20/2000 | 3 | 2.1 | 75 | ND<0.005 | ND<0.005 | ND<0.01 | ND<0.005 | MTBE ND<0.05 | --- |
| | 9.0' | 12/20/2000 | 160 | 3.2 | 42 | ND<0.005 | ND<0.3 | ND<1.0 | ND<1.0 | MTBE ND<0.05 | --- |
| 2004 Investigation | | | | | | | | | | | |
| 4563-MW14-S4 | 4 | 9/21/2004 | 2.6 | --- | --- | ND<0.0050 | ND<0.0050 | ND<0.0050 | ND<0.0050 | ND<0.020-0.50 | --- |
| 4563-MW14-S10 | 10 | 9/21/2004 | ND<1.0 | --- | --- | ND<0.0050 | ND<0.0050 | ND<0.0050 | ND<0.0050 | ND<0.020-0.50 | --- |
| 4563-MW15-S4 | 4 | 9/21/2004 | 1.7 | --- | --- | 0.0096 | ND<0.0050 | ND<0.0050 | ND<0.0050 | ND<0.020-0.50 | --- |
| 4563-MW15-S8 | 8 | 9/21/2004 | 220 | --- | --- | 0.039 | ND<0.0050 | 0.54 | 2.4 | ND<0.020-0.50 | --- |
| 4563-MW16-S4 | 4 | 9/21/2004 | 560 | --- | --- | 1.8 | 0.26 | 1.0 | 2.6 | ND<1.0-2.5 | --- |
| 4563-MW16-S9 | 9 | 9/21/2004 | 1.8 | --- | --- | ND<0.0050 | ND<0.0050 | ND<0.0050 | ND<0.0050 | MTBE=0.057 | --- |
| 4563-B12-S12,0 | 12 | 9/30/2004 | ND<1.0 | --- | --- | ND<0.0050 | ND<0.0050 | ND<0.0050 | ND<0.0050 | All others ND<0.020-0.50 ND<0.020-0.50 | --- |
| 4563-B12-S16,0 | 16 | 9/30/2004 | ND<1.0 | --- | --- | ND<0.0050 | ND<0.0050 | ND<0.0050 | ND<0.0050 | ND<0.020-0.50 | --- |
| 4563-B12-S20,0 | 20 | 9/30/2004 | ND<1.0 | --- | --- | ND<0.0050 | ND<0.0050 | ND<0.0050 | ND<0.0050 | ND<0.020-0.50 | --- |
| 4563-B12-S24,0 | 24 | 9/30/2004 | ND<1.0 | --- | --- | ND<0.0050 | ND<0.0050 | ND<0.0050 | ND<0.0050 | ND<0.020-0.50 | --- |

Notes:

Bold indicates analyte detection

A key to abbreviations is included as Attachment 2.